*Tele*Eye ⅲ⁺ VX Series

Video Recording Transmitter

VX-4001 / VX-4002
VX-8002 / VX-8004
VX-16004 / VX-16008

Installation Guide

TeleEye
www.TeleEye.com

Table of Contents

<div align="right">

SECTION 1

</div>

INTRODUCTION

The revolutionary **TeleEye *III+* VX Series Video Recording Transmitter *(*TeleEye *III+* VX*)** is an all-in-one video recording transmitter with dual composite video outputs and removable hard disk for standalone and remote operations.

The **TeleEye *III+* VX** supports triplex operation in which video monitoring, recording and playback can be carried out simultaneously. Recording frame rate up to 100/120 fps can be achieved. The highest recording resolution is 640x480 pixels. Recording operation can be activated by manual, scheduled and event-driven modes.

The powerful **TeleEye *III+* VX** works on broadband Internet economically and gives you exceptionally well real time video transmission at speed up to 25/30 fps. Its "*sure*LINK" technology allows low cost dynamic IP broadband Internet connection.

Powered by its proprietary video compression technology and remote accessibility, **TeleEye *III+* VX** provides simultaneous remote monitoring, recording and playback. Users can keep track of live video and play back recorded video from any remote locations.

TeleEye *III+* VX is not only designed for connectivity but a total solution for video monitoring and digital recording!

Introduction

Features

- Video recording with rate up to 100/120 fps
- Standalone operations
- Dual composite video outputs
- OSD menus
- Flexible connections – Internet, LAN, PSTN, ISDN, ADSL cable modem, mobile network, etc.
- Built-in web server
- Support static and dynamic IP
- Real time video transmission
  - Up to 30fps over LAN for NTSC
  - Up to 25fps over LAN for PAL
  - Up to 20fps on PSTN
- Excellent picture resolution up to 640 x 480 pixels
- 4, 8, & 16 video & alarm inputs
- Web-based video monitoring
- Mobile video on Pocket PC
- Triplex Operation: Simultaneous video monitoring, recording & playback
- Video motion detection
- Event-driven recording
- Programmable video recording
- Auto alarm dial-back
- Pre- & post-alarm video recording
- Compatibility with popular telemetry systems
- Single- & multi-site monitoring
- Audio transmission with CAMERIO **Tele EAR**
- Video back-up function
- 4 relay switches

Introduction

SECTION 2

INSTALLATION OF *Tele*Eye *lll+* VX FOR LOCAL MONITORING

Removing the Package

After removing the package, make sure you have the following items:

- *Tele*Eye *lll+* VX transmitter
- Software CD
- Hard disk cartridge (with or without hard disk)
- Hard disk cartridge Key x 2
- AC to DC Power Adapter with cord
- Modem cable with 9-pin RS232 header
- 37-pin alarm header
- Warranty card
- Serial number and registration code card

Front Panel Descriptions
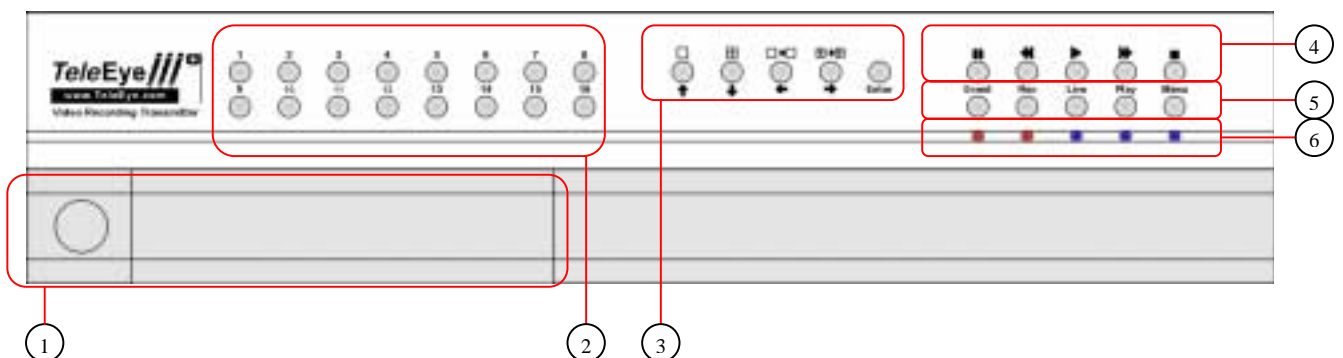
1. Removable Hard Disk

- All models built with a removable hard disk tray
- Key lock is provided to lock the hard disk from un-authorized removing
- Key is used to enable/disable the power supply to the system

Installation of *Tele*Eye *lll+* VX for Local Monitoring

2. Live camera control buttons

- **VX–4001 / VX–4002**: 1 – 4

- **VX–8002 / VX–8004**: 1 – 8

- **VX–16004 / VX–16008**: 1 – 16

- Camera control buttons allow user to fast switch to a specific camera for local monitoring

- The buttons are also used for password input

3. Screen mode control / Menu control buttons
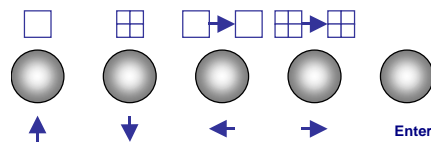
- There are 2 modes for these buttons, either in live mode or menu control mode

- In live mode, the buttons are used to change video display mode in full screen, quad screen, full screen page mode and quad screen page mode

- In menu control mode, the buttons are used as "up", "down", "left", "right" and "Enter" control

4. Local Playback control buttons
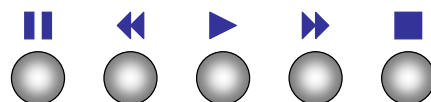
- These 5 buttons are used for recording playback control only

- The functions are pause, fast backward, play, fast forward, and stop

Installation of *Tele*Eye *III+* VX for Local Monitoring

5. Mode control buttons
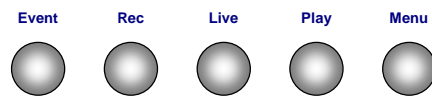
- These 5 buttons are used for switching between the control modes

- Event button: fast switch to event menu at any time

- Rec button: enable/disable normal recording at any time

- Live button: view live video at any time

- Play button: fast switch to playback log menu

- Menu button: switch to menu for system settings, recording settings and event settings etc.

6. Notification LEDs

There are 5 notification LEDs, 3 blue color and 2 red color from right to left
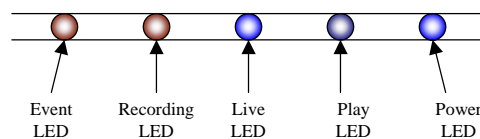
Power LED: this LED will be ON when hard disk rack key is locked and power switch is turned on. This LED will blink during system initiation, and remains ON after initiation.

Play LED: this LED will be ON when user press the **[Play]** button, it will turn OFF when the system is in live mode

Live LED: this LED is ON indicating that video from the video out connectors are live videos. During recording video playback, this LED turns OFF

Recording LED: this LED will turn ON when **Tele**Eye **III+** VX is doing recording

Event LED: this LED will blink when event is triggered

Installation of **Tele**Eye **III+** VX for Local Monitoring

Rear Panel Descriptions
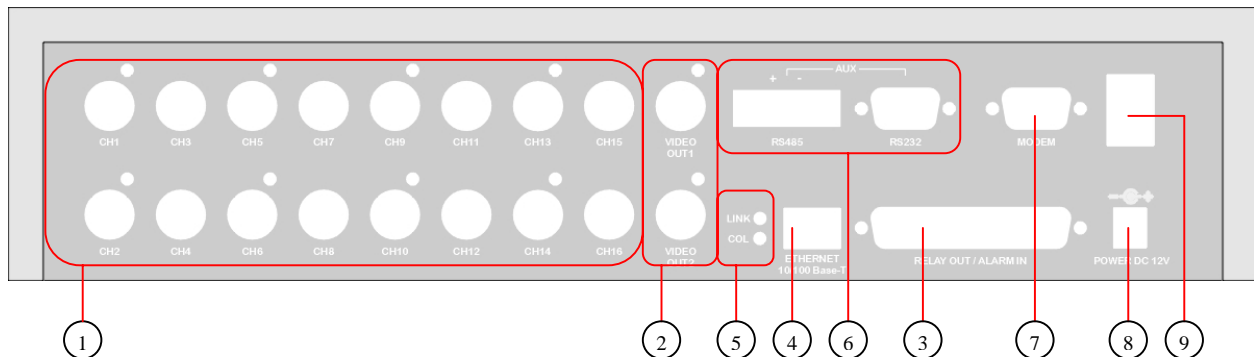
1. VIDEO INPUT Connectors

- **VX–4001 / VX–4002**: CH1 – CH4

- **VX–8002 / VX–8004**: CH1 – CH8

- **VX–16004 / VX–16008**: CH1 – CH16

- Standard BNC connectors for color and black and white video sources

- A composite video signal should be supplied to these connectors

2. VIDEO OUTPUT Connectors

- VIDEO OUT1 and VIDEO OUT2

- A composite video signal with 1V p-p is output from these connectors

- PAL/CCIR format with 625 lines, 50 fields per second

- NTSC/EIA format with 525 lines, 60 fields per second

3. RELAY OUT / ALARM IN Port

- 4 control switches are available for all models.

- **VX–4001 / VX–4002**: 4 alarm ports

- **VX–8002 / VX–8004**: 8 alarm ports

- **VX–16004 / VX–16008**: 16 alarm ports

Installation of *Tele*Eye *III+* VX for Local Monitoring

- All alarm ports are NC/NO type input

- Alarm port 1 can be configured as arm/disarm input

4. Ethernet Socket (10/100 Base-T)

- This socket is used for connecting *Tele*Eye *III+* VX to the corporate computer network (e.g. LAN)

5. Collision & Link LED Status

COL LED: when on, indicates that collision is occurring on the network.

LINK LED: when on, indicates that *Tele*Eye *III+* VX is connecting to the network and ready to function.

6. AUX Port

- A DB-9 female connector of DCE format, capable of connecting to DTE such as remote Pan/Tilt/Zoom operation

- Used for configuring the *Tele*Eye *III+* VX 's internal settings

Pin number	Definition	Direction
1	CD	Output
2	RXD	Output
3	TXD	Input
4	DTR	Input
5	GND	——
6	DSR	Output
7	RTS	Input
8	CTS	Output
9		N/A

Installation of *Tele*Eye *III+* VX for Local Monitoring

7. MODEM Port

- A DB-9 male connector of DTE format, capable for connecting to DCE such as modem, ISDN terminal adaptor

Pin number	Definition	Direction
1	CD	Input
2	RXD	Input
3	TXD	Output
4	DTR	Output
5	GND	——
6	DSR	Input
7	RTS	Output
8	CTS	Input
9		N/A

8. Power Jack

- A 2.1mm D.C. power jack for the connection to the power supply (12V D.C.)

9. Switch

- A power switch to switch on or off the **TeleEye III+ VX** transmitter

Installation of TeleEye III+ VX for Local Monitoring

Install *TeleEye III+* VX for Local Video Display

VIDEO IN connect to camera with coaxial cables with BNC header

VIDEO OUT connect to coaxial video cable with BNC header

TeleEye III+ VX

BNC cables

BNC cable

Power Adapter

DC power supply input with 12VDC, centre positive

Video Cameras
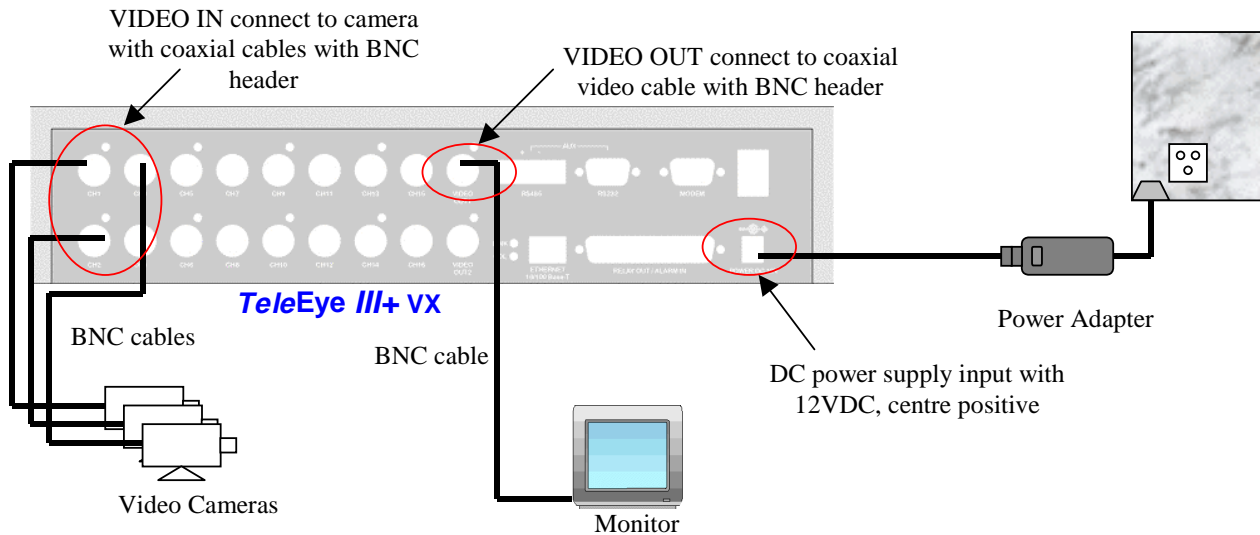
Monitor

Procedures:

1. Insert the hard disk cartridge into the hard disk tray of *TeleEye III+* VX

2. Using the key provided to lock the hard disk cartridge

3. Connect video cameras to input video channels with BNC cable

4. Connect the VIDEO OUT1 to a monitor using BNC cable

5. Plug the DC supply to the power jack from the power adapter

6. Switch on the *TeleEye III+* VX and you will see the live video on the monitor. For the first time you use *TeleEye III+* VX, the live display mode is in quad mode, which means you will see four cameras on the screen at the same time

Installation of *TeleEye III+* VX for Local Monitoring

7. Press the **[full screen mode control]** button to switch to the full screen mode. You can press the **[quad screen mode control]** button again to switch back to quad mode
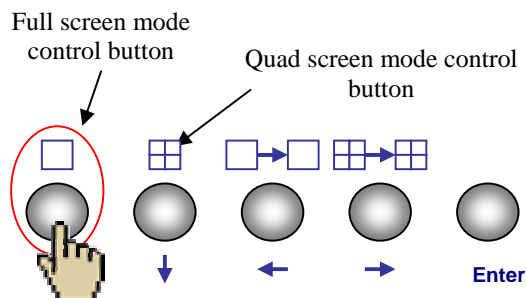
8. Press the **[live camera control]** button to switch to a different camera
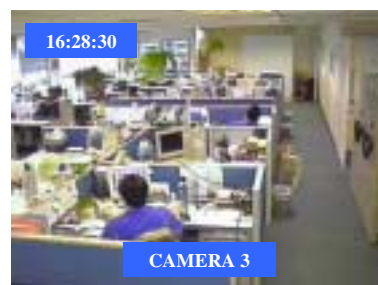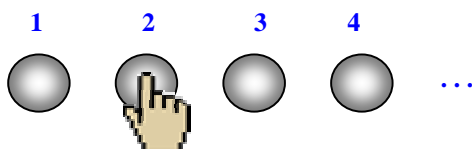
Installation of _Tele_Eye _III+_ VX for Local Monitoring

9. Press the **[page switching mode control]** button to view all cameras sequentially

Page switching mode
control (full screen) button

Page switching mode
control (quad screen) button

Enter

CAMERA 1

5 sec →

16:28:35

CAMERA 2

↓ 5 sec

16:28:45

CAMERA 4

← 5 sec

16:28:40

CAMERA 3

↓ 5 sec

Other Cameras

Installation of _Tele_Eye _III+_ VX for Local Monitoring
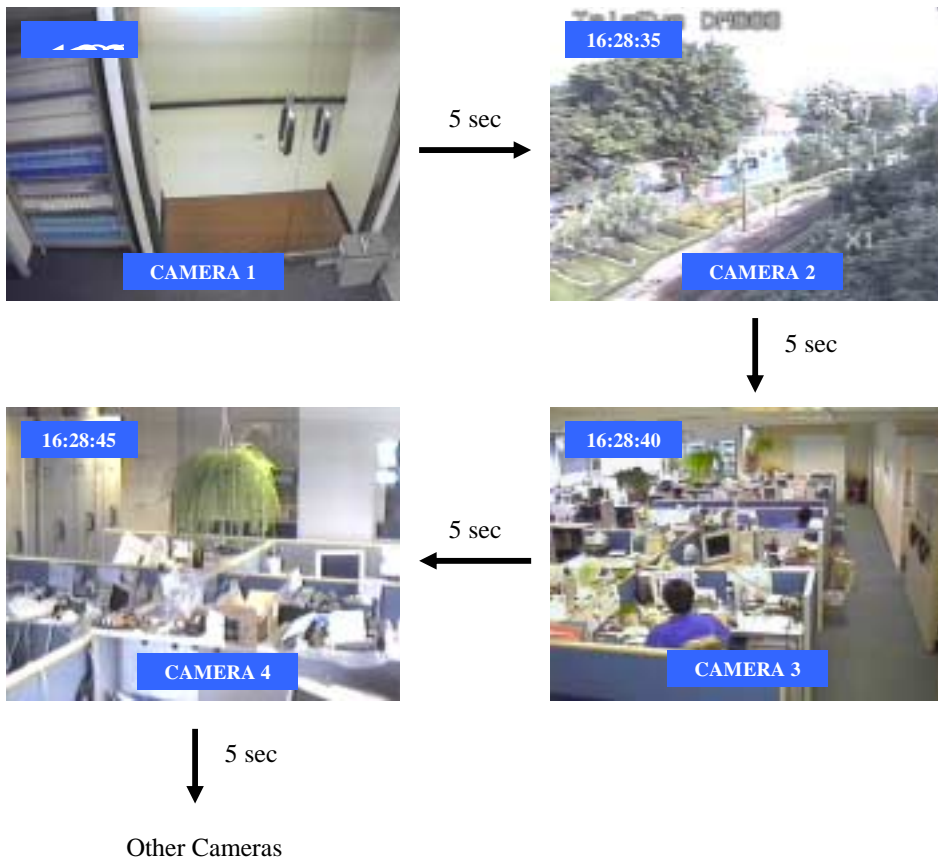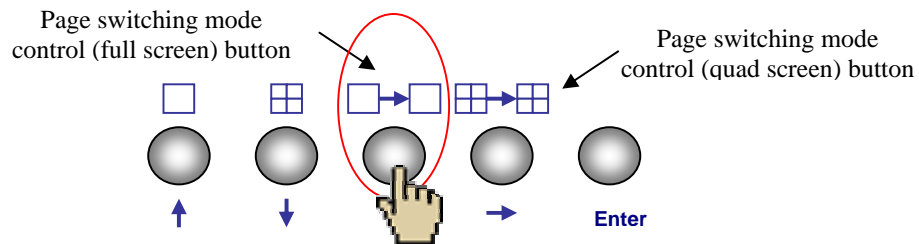
Install *Tele*Eye *III+* VX with Alarm Sensors and Relay Control Port

*Tele*Eye *III+* VX supports up to 16 alarm ports for connecting with alarm sensors, and 4 relay ports for remote/local controls. The definitions of alarm and relay control port are shown in the following diagram.
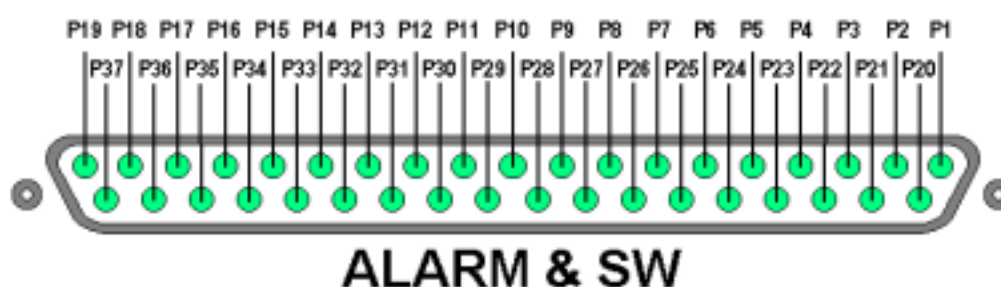
For **VX-4001/ VX-4002**:

Pin 1	ALARM 1	Pin 20	GND
Pin 2	ALARM 2	Pin 21	GND
Pin 3	ALARM 3	Pin 22	GND
Pin 4	ALARM 4	Pin 23	GND
Pin 5	N/C	Pin 24	GND
Pin 6	N/C	Pin 25	GND
Pin 7	N/C	Pin 26	GND
Pin 8	N/C	Pin 27	GND
Pin 9	N/C	Pin 28	GND
Pin 10	N/C	Pin 29	GND
Pin 11	N/C	Pin 30	GND
Pin 12	N/C	Pin 31	GND
Pin 13	N/C	Pin 32	N/C
Pin 14	N/C	Pin 33	N/C
Pin 15	RELAY 0a	Pin 34	RELAY 0b
Pin 16	RELAY 1a	Pin 35	RELAY 1b
Pin 17	RELAY 2a	Pin 36	RELAY 2b
Pin 18	RELAY 3a	Pin 37	RELAY 3b
Pin 19	N/C		

For **VX-8002 / VX-8004**:

Pin 1	ALARM 1	Pin 20	GND
Pin 2	ALARM 2	Pin 21	GND
Pin 3	ALARM 3	Pin 22	GND
Pin 4	ALARM 4	Pin 23	GND
Pin 5	ALARM 5	Pin 24	GND
Pin 6	ALARM 6	Pin 25	GND
Pin 7	ALARM 7	Pin 26	GND
Pin 8	ALARM 8	Pin 27	GND
Pin 9	N/C	Pin 28	GND

Installation of *Tele*Eye *III+* VX for Local Monitoring

Pin 10	N/C	Pin 29	GND
Pin 11	N/C	Pin 30	GND
Pin 12	N/C	Pin 31	GND
Pin 13	N/C	Pin 32	N/C
Pin 14	N/C	Pin 33	N/C
Pin 15	RELAY 0a	Pin 34	RELAY 0b
Pin 16	RELAY 1a	Pin 35	RELAY 1b
Pin 17	RELAY 2a	Pin 36	RELAY 2b
Pin 18	RELAY 3a	Pin 37	RELAY 3b
Pin 19	N/C		

For **VX-16004 / VX-16008**:

Pin 1	ALARM 1	Pin 20	GND
Pin 2	ALARM 2	Pin 21	GND
Pin 3	ALARM 3	Pin 22	GND
Pin 4	ALARM 4	Pin 23	GND
Pin 5	ALARM 5	Pin 24	GND
Pin 6	ALARM 6	Pin 25	GND
Pin 7	ALARM 7	Pin 26	GND
Pin 8	ALARM 8	Pin 27	GND
Pin 9	ALARM 9	Pin 28	GND
Pin 10	ALARM 10	Pin 29	GND
Pin 11	ALARM 11	Pin 30	GND
Pin 12	ALARM 12	Pin 31	GND
Pin 13	ALARM 13	Pin 32	ALARM 14
Pin 14	ALARM 15	Pin 33	ALARM 16
Pin 15	RELAY 0a	Pin 34	RELAY 0b
Pin 16	RELAY 1a	Pin 35	RELAY 1b
Pin 17	RELAY 2a	Pin 36	RELAY 2b
Pin 18	RELAY 3a	Pin 37	RELAY 3b
Pin 19	N/C		

Installation of *Tele*Eye *III+* VX for Local Monitoring

Install _Tele_Eye _III+_ VX with Telemetry Control

As **_Tele_Eye _III+_ VX** built with a RS485 port, you can connect this port to Pan/Tilt/Zoom cameras. The connection diagram is shown below.
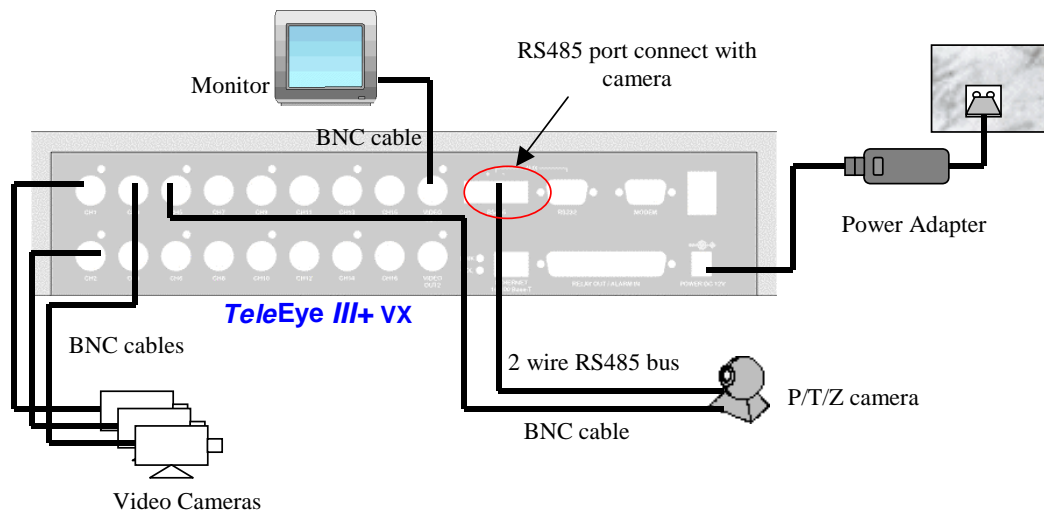
Note: RS485 and RS232 AUX port are shared port in **_Tele_Eye _III+_ VX**. Only connect to one port at a time. Connecting both ports at the same time will cause both ports malfunction.

Installation of _Tele_Eye _III+_ VX for Local Monitoring

<div align="right">

SECTION

3

MENU OPERATION

</div>

Menu Structure

The system setup and operation of **_Tele_Eye _III+_ VX** is controlled through menus. The overall menu tree is shown in the following diagram. The function of each menu will be explained later in this section.

```
                                    [ DISPLAY SETUP ]

                              CAMERA SETUP                . . .
                              VIDEO SETUP                 . . .
                              OSD COLOR                   BLUE
                              TIME DISPLAY           TOP LEFT
                              CAMERA NAME DISPLAY  BOTTOM
                              PAGE SWITCHING (SEC)          1
                              BACK


                                     [ALARM SETUP]

                              ALARM NAME                  . . .
                              ALARM TYPE                  . . .
                              ALARM INSTALLED  -2345678--------
                              ALARM ASSOCIATE CAMERA   . . .
                              BACK


                                    [ SWITCH SETUP ]

                              SWITCH NAME                 . . .
                              SWITCH TYPE                 . . .
                              SWITCH ON/OFF               . . .
                              BACK


        [ MAIN MENU ]
                                    [ RECORDING SETUP ]
    DISPLAY SETUP         . . .
    ALARM SETUP           . . .    DISK INFORMATION            . . .
    SWITCH SETUP          . . .    RECORDING MODE              . . .
    RECORDING SETUP       . . .    NORMAL RECORDING            . . .
    TRANSMITTER SETUP     . . .    PRE-ALARM RECORDING         . . .
    EVENT SETUP           . . .    PROGRAMMABLE RECORDING . . .
    ARM/DISARM SETUP      . . .    AUDIO RECORDING             . . .
    PASSWORD SETUP        . . .    RECORDING RESOLUTION MEDIUM
    EXIT                          RECORDING QUALITY   EXCELLENT
                                  BACK


                                   [ TRANSMITTER SETUP ]

                              GENERAL SETUP               . . .
                              NETWORK SETUP               . . .
                              ADV. DISK SETUP             . . .
                              BACK
```

Menu Operation

```
                              [ EVENT SETUP]

                    ALARM EVENT                    . . .
                    MOTION EVENT                   . . .
                    VIDEO LOSS EVENT               . . .
                    DISK FULL EVENT                . . .
                    SYSTEM FAILURE EVENT           . . .
                    MOTION CAMERA SETUP            . . .
                    EVENT SWITCH SETUP             . . .
                    DIAL BACK SETUP               . . .
                    EMAIL SETUP                    . . .
                    BACK
```

```
                          [ ARM DISARM SETUP ]

               DISARM TYPE (ALARM 1)  NORMAL OPEN
               ASSOCIATE ALARM EVENT            YES
               ASSOCIATE MOTION EVENT           YES
               BACK
```

```
                        [ PASSWORD SETUP ]

          ENABLE SETUP MENU PASSWRD              NO
          ENABLE PLAYBACK MENU PASSWRD           NO
          ENABLE EVENT MENU PASSWRD              NO
          ENABLE RECORDING MENU PASSWRD          NO
          CHANGE PASSWORD                    ******
          BACK
```

Main Menu

```
                       [ MAIN MENU ]

          👉 DISPLAY SETUP                    ..
             ALARM SETUP                      . . .
             SWITCH SETUP                     . . .
             RECORDING SETUP                  . . .
             TRANSMITTER SETUP                . . .
             EVENT SETUP                      . . .
             ARM/DISARM SETUP                 . . .
             PASSWORD SETUP                   . . .
             EXIT
```
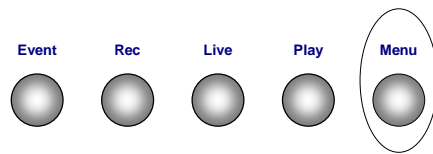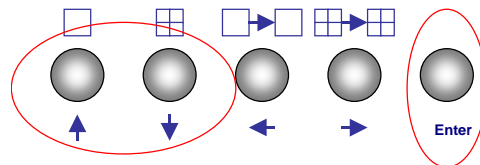
Menu Operation

1. Press the **[Menu]** button to pop up the main menu

2. Using the **[up/down arrow]** button to select a sub-menu

3. A selected sub-menu item will be pointed by a hand cursor and highlighted

4. Press **[Enter]** button to confirm the selection and pop up the sub-menu

5. The main menu contains the following items

DISPLAY SETUP	: Change camera, live video and OSD related settings
ALARM SETUP	: Change alarm related settings
SWITCH SETUP	: Change relay switch related settings
RECORDING SETUP	: Change recording related settings
TRANSMITTER SETUP	: Change the transmitter general and network settings
EVENT SETUP	: Change event, and event related settings
PASSWORD SETUP	: Change system password settings
EXIT	: Exit the main menu

6. Menu item ended with **[. . .]** indicates sub-menu exist. You can always press the **[Enter]** button to pop up the sub-menu

7. If menu item not ended with **[. . .]** but provides selection, you can always press the **[left/right arrow]** button to toggle the selections

   Left/right arrow button to toggle selection
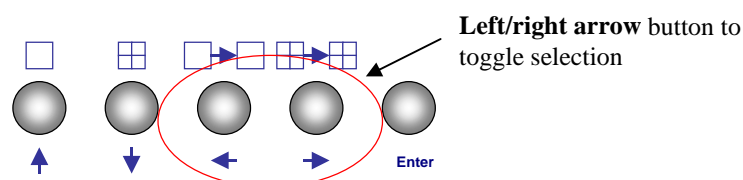
8. In menu operation mode, the **[Menu]** button act as a "Back" button, you can press the **[Menu]** button back to previous menu

Menu Operation

Display Setup Menu

```
┌─────────────────────────────────────┐
│          [ DISPLAY SETUP ]          │
│                                     │
│ 👉 CAMERA SETUP                 . . │
│    VIDEO SETUP                  . . .│
│    OSD COLOR                    BLUE │
│    TIME DISPLAY            TOP LEFT  │
│    CAMERA NAME DISPLAY    BOTTOM     │
│    PAGE SWITCHING (SEC)          1  │
│    BACK                             │
└─────────────────────────────────────┘
```
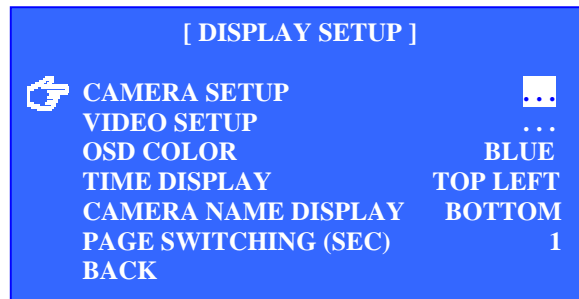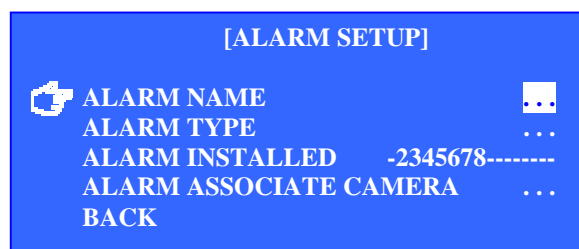
The display setup menu contains the following items

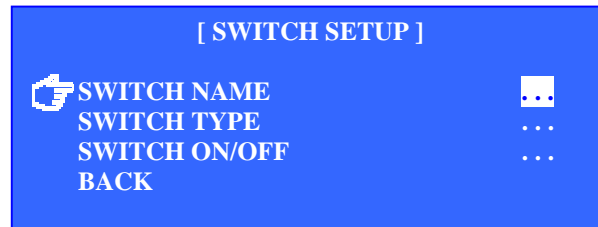|	
CAMERA SETUP	: Change camera name, camera install
VIDEO SETUP	: Change video brightness, contrast and color format
OSD COLOR	: Change OSD color
TIME DISPLAY	: Change the position of time display on OSD
CAMERA NAME DISPLAY	: Change the position of camera name display on OSD
PAGE SWITCHING (SEC)	: Change the page switching time
BACK	: Back to previous menu

Alarm Setup Menu

```
┌─────────────────────────────────────┐
│            [ALARM SETUP]            │
│                                     │
│ 👉 ALARM NAME                   . . │
│    ALARM TYPE                   . . .│
│    ALARM INSTALLED    -2345678------│
│    ALARM ASSOCIATE CAMERA     . . . │
│    BACK                             │
└─────────────────────────────────────┘
```

The alarm setup menu contains the following items

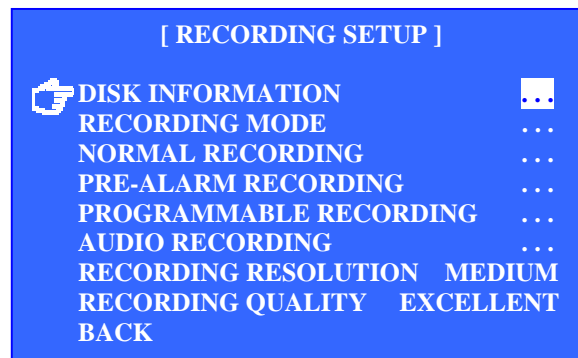|	
ALARM NAME	: Change alarm port name
ALARM TYPE	: Change alarm type, normal close or normal open
ALARM INSTALLED	: Change installed alarms
ALARM ASSOCIATE CAMERA	: Change alarm associate camera for alarm recording
BACK	: Back to previous menu

Menu Operation

Switch Setup Menu

```
                    [ SWITCH SETUP ]

    ☞ SWITCH NAME                    . . .
      SWITCH TYPE                    . . .
      SWITCH ON/OFF                  . . .
      BACK
```

The switch setup menu contains the following items

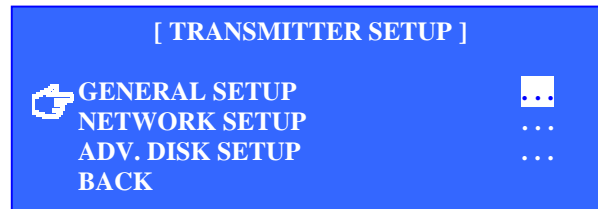|	
SWITCH NAME	: Change relay switch name
SWITCH TYPE	: Change relay switch type
SWITCH ON/OFF	: Manually control the switch to ON/OFF state
BACK	: Back to previous menu

Recording Setup Menu

```
                   [ RECORDING SETUP ]

    ☞ DISK INFORMATION               . . .
      RECORDING MODE                 . . .
      NORMAL RECORDING               . . .
      PRE-ALARM RECORDING            . . .
      PROGRAMMABLE RECORDING         . . .
      AUDIO RECORDING                . . .
      RECORDING RESOLUTION    MEDIUM
      RECORDING QUALITY     EXCELLENT
      BACK
```

The recording setup menu contains the following items

DISK INFORMATION	: Report the hard disk information
RECORDING MODE	: Select the fix or cyclic recording mode
NORMAL RECORDING	: Change normal recording enabled cameras
PRE-ALARM RECORDING	: Change settings of programmable recording
PROGRAMMABLE RECORDING	: Enable/Disable pre-alarm recording
AUDIO RECORDING	: Change settings of audio recording
RECORDING RESOLUTION	: Change recording resolution (use left/right arrow button)
RECORDING QUALITY	: Change recording quality (use left/right arrow button)
BACK	: Back to previous menu

Menu Operation

Transmitter Setup Menu

```
            [ TRANSMITTER SETUP ]

      GENERAL SETUP              . . .
      NETWORK SETUP              . . .
      ADV. DISK SETUP            . . .
      BACK
```

The transmitter setup menu contains the following items

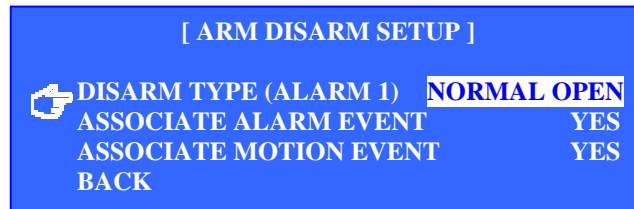|	
GENERAL SETUP	: Change general settings such as date/time, modem port
NETWORK SETUP	: Change network type setting such as IP address, port
ADV. DISK SETUP	: Hard disk scanning and formatting tools
BACK	: Back to previous menu

Event Setup Menu

```
              [ EVENT SETUP]

      ALARM EVENT                . . .
      MOTION EVENT               . . .
      VIDEO LOSS EVENT           . . .
      DISK FULL EVENT            . . .
      SYSTEM FAILURE EVENT       . . .
      MOTION CAMERA SETUP        . . .
      EVENT SWITCH SETUP         . . .
      DIAL BACK SETUP            . . .
      EMAIL SETUP                . . .
      BACK
```

The event setup menu contains the following items

ALARM EVENT	: Change alarm event associated actions
MOTION EVENT	: Change motion event associated actions
VIDEO LOSS EVENT	: Change video loss event associated actions
DISK FULL EVENT	: Change disk full event associated actions
SYSTEM FAILURE EVENT	: Change system failure event associated actions
MOTION CAMERA SETUP	: Enable/Disable motion detection for a particular camera
EVENT SWITCH SETUP	: Change relay switch type for event triggered actions
DIAL BACK SETUP	: Change dial back action settings
EMAIL SETUP	: Change Email action settings
BACK	: Back to previous menu

Menu Operation

Arm/Disarm Setup Menu

```
[ ARM DISARM SETUP ]

DISARM TYPE (ALARM 1)    NORMAL OPEN
ASSOCIATE ALARM EVENT             YES
ASSOCIATE MOTION EVENT            YES
BACK
```

The arm/disarm setup menu contains the following items

DISARM TYPE (ALARM 1)	: Change arm/disarm type
ASSOCIATE ALARM EVENT	: Change arm/disarm associated with alarm event
ASSOCIATE MOTION EVENT	: Change arm/disarm associated with motion event
BACK	: Back to previous menu

Note: ARM/DISARM is controlled by alarm 1

Password Setup Menu

```
[ PASSWORD SETUP ]

ENABLE SETUP MENU PASSWRD         NO
ENABLE PLAYBACK MENU PASSWRD      NO
ENABLE EVENT MENU PASSWRD         NO
ENABLE RECORDING MENU PASSWRD     NO
CHANGE PASSWORD                ******
BACK
```
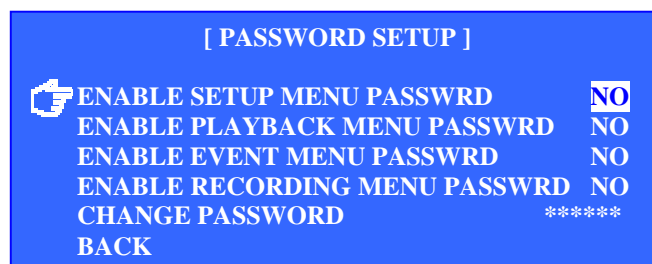
The password setup menu contains the following items

ENABLE SETUP MENU PASSWORD	: Enable or disable setup menu password
ENABLE PLAYBACK MENU PASSWORD	: Enable or disable playback menu password
ENABLE EVENT MENU PASSWORD	: Enable or disable event menu password
ENABLE RECORDING MENU PASSWORD	: Enable or disable recording menu password
CHANGE PASSWORD	: Change to a new password
BACK	: Back to previous menu

Menu Operation

INSTALLATION OF *Tele*Eye *III+* VX FOR REMOTE MONITORING

Install *Tele*Eye *III+* VX for Remote Monitoring with Network
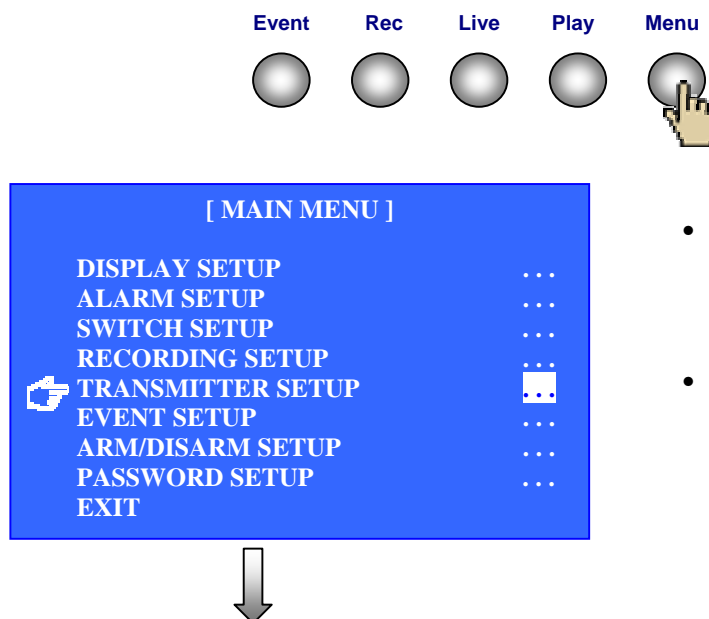
A. Setup *Tele*Eye *III+* VX for connection in LAN environment

Before setting up the transmitter on LAN, you need to prepare the following items:

- A straight through RJ45 Ethernet cable

- An IP address which is unique in your LAN network. Consult your network administrator if you don't have

Procedures:

1. Follow the steps of setting up *Tele*Eye *III+* VX for local video display, now you can see the live video and OSD on the monitor

2. Press the **[Menu]** button on front panel of *Tele*Eye *III+* VX such that the OSD main menu will popup on the monitor as follows

Event   Rec   Live   Play   Menu

```
[ MAIN MENU ]

DISPLAY SETUP              . . .
ALARM SETUP                . . .
SWITCH SETUP               . . .
RECORDING SETUP            . . .
TRANSMITTER SETUP          . . .
EVENT SETUP                . . .
ARM/DISARM SETUP           . . .
PASSWORD SETUP             . . .
EXIT
```

- Use the arrow button to move down to select the **[TRANSMITTER SETUP]** menu. The selected item will be pointed by a hand icon.

- Press the **[Enter]** button to enter the selected sub-menu

Installation of *Tele*Eye *III+* VX for Remote Monitoring

[TRANSMITTER SETUP]

GENERAL SETUP   . . .
☞ NETWORK SETUP   . . .
ADV. DISK SETUP   . . .
BACK
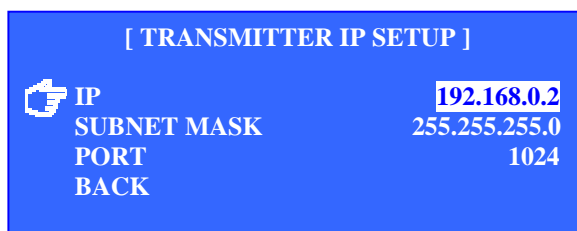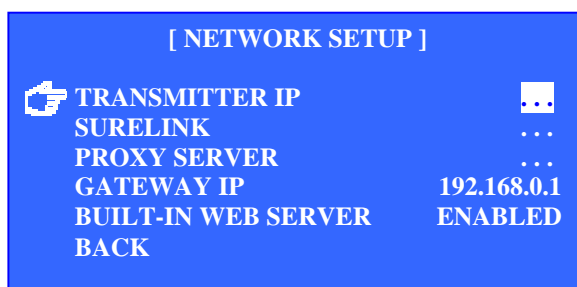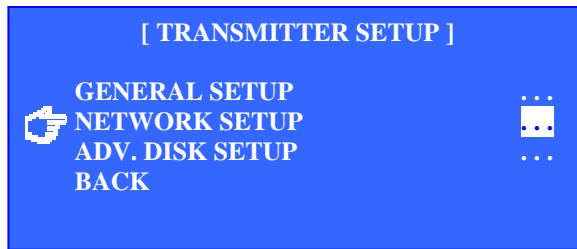
- In the **[TRANSMITTER SETUP]** menu, move the cursor to **[NETWORK SETUP]**

- Press the **[Enter]** button to enter the selected sub-menu

- If you have selected the wrong sub-menu, you can select the **[BACK]** item to go back to the previous menu

[NETWORK SETUP]

☞ TRANSMITTER IP   . . .
SURELINK   . . .
PROXY SERVER   . . .
GATEWAY IP   192.168.0.1
BUILT-IN WEB SERVER   ENABLED
BACK

- Later on you can go back to this menu to enable the built-in web server so that you can use a web browser (eg. IE) to test the connection

Menu items ended with **[…]** indicate sub-menu exist

[TRANSMITTER IP SETUP]

☞ IP   192.168.0.2
SUBNET MASK   255.255.255.0
PORT   1024
BACK

[IP SETUP]

0   1   2   3   4
5   6   7   8   9
BACK   NEXT   SPACE   CLEAR   END

  IP: 192 . 168 . 000 . 002

- Use Cursor button to move the cursor to select **0-9**, **[BACK]**, **[NEXT]**, etc.

- Use the **[Enter]** button to confirm selection

- After entering the IP address, select **[END]** and press **[Enter]** button to go back to previous menu for subnet mask and port number setting

3. After setting up the IP address, you need to setup the subnet mask and port number in the similar way

Installation of *Tele*Eye *III+* VX for Remote Monitoring

4. After changing any network settings, you should back to the **[MAIN MENU]** and **[EXIT]** the main menu to save all the settings. Or you can press the **[Live]** button to fast exit the menu operation

5. Now connect the *Tele*Eye *III+* **VX** to your LAN using Ethernet cable as shown in the following diagram

Ethernet port connect with RJ45 header

Power Adapter

*Tele*Eye *III+* VX

BNC cables

192.168.0.5

CAT-5 Ethernet cable   192.168.0.3

BNC cable

192.168.0.4

Video Cameras

Network switch

192.168.0.2

Monitor

LINK

COL

Ethernet 10/100 Base T
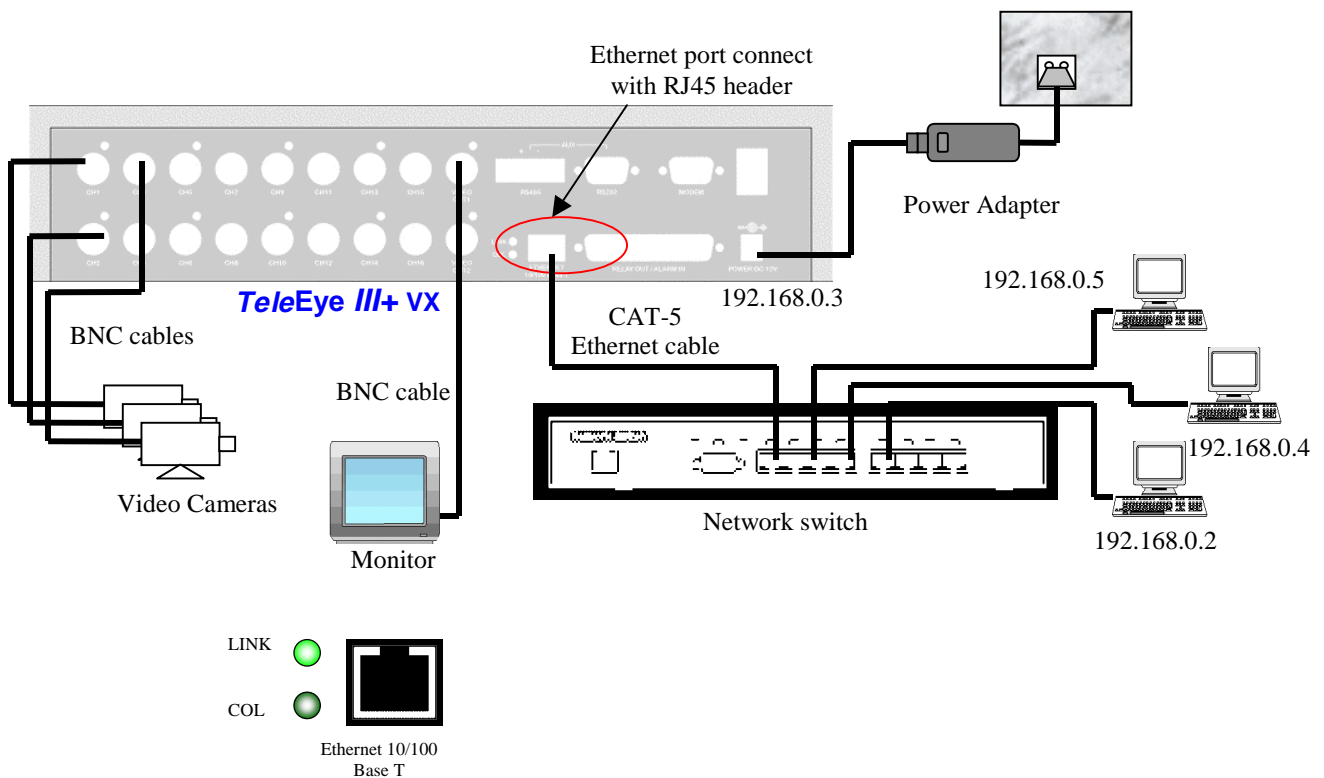
6. Power on the *Tele*Eye *III+* **VX**. You will notice the **LINK LED** is on and **COL LED** is off which indicate you have connected to your LAN network properly.

7. If you have enabled the built-in web server of *Tele*Eye *III+* **VX**, you can connect to *Tele*Eye *III+* **VX** using a web browser (eg. IE) on a PC inside the network. Type the address as (eg. http://192.168.0.3), you are prompt to enter the password (default is "000000"). Please see section 5 for detail on built-in web server access.

8. If all the settings are correct, you can view the video through the browser.

Installation of *Tele*Eye *III+* VX for Remote Monitoring

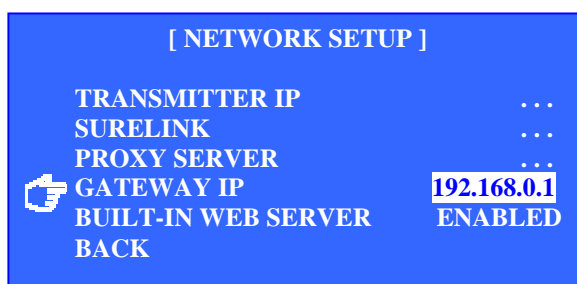**B. Setup *TeleEye III+* VX for connection in WAN environment with static IP**

Connection topology:

The connection topology of *TeleEye III+* VX in WAN environment is similar in the case of LAN. An additional equipment called Router/Gateway is needed for connecting the LAN with WAN. Therefore, we need to setup the gateway IP for *TeleEye III+* VX.
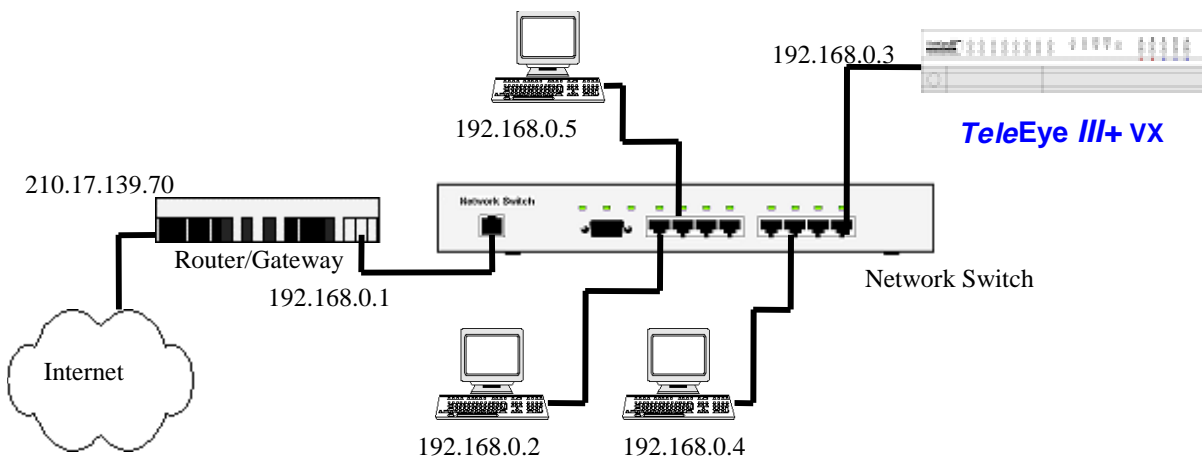
Procedures:

1. Follow the steps of setting up *TeleEye III+* VX for local video display so that you can configure everything with OSD. Press the button **[Menu]**, and then by entering the menu **[MAIN MENU]** and **[TRANSMITTER SETUP]**, you can see the following menu.

[NETWORK SETUP]	
TRANSMITTER IP	**. . .**
SURELINK	**. . .**
PROXY SERVER	**. . .**
GATEWAY IP	**192.168.0.1**
BUILT-IN WEB SERVER	**ENABLED**
BACK	

- Use Cursor button to select the **[GATEWAY IP]** item

- Use the **[Enter]** button to enter the **[GATEWAY IP]** sub-menu to change the gateway IP

- Exit all menus to save the settings

2. Power on the *TeleEye III+* VX. The **LINK LED** is on and **COL LED** is off, which indicate that you have connected to your LAN properly.

Installation of *Tele*Eye *III+* VX for Remote Monitoring

**C. Setup *Tele*Eye *III+* VX for Broadband Internet connection with dynamic IP using Internet router**

Connection topology:

Nowadays, Broadband Internet access is established by using ADSL modem or Cable modem. For ADSL modem, an Internet Router is used to be setup with the broadband access account name and password. To enable a remote viewer to connect to *Tele*Eye *III+* VX through the Internet, we need to setup port mapping for the Internet Router.
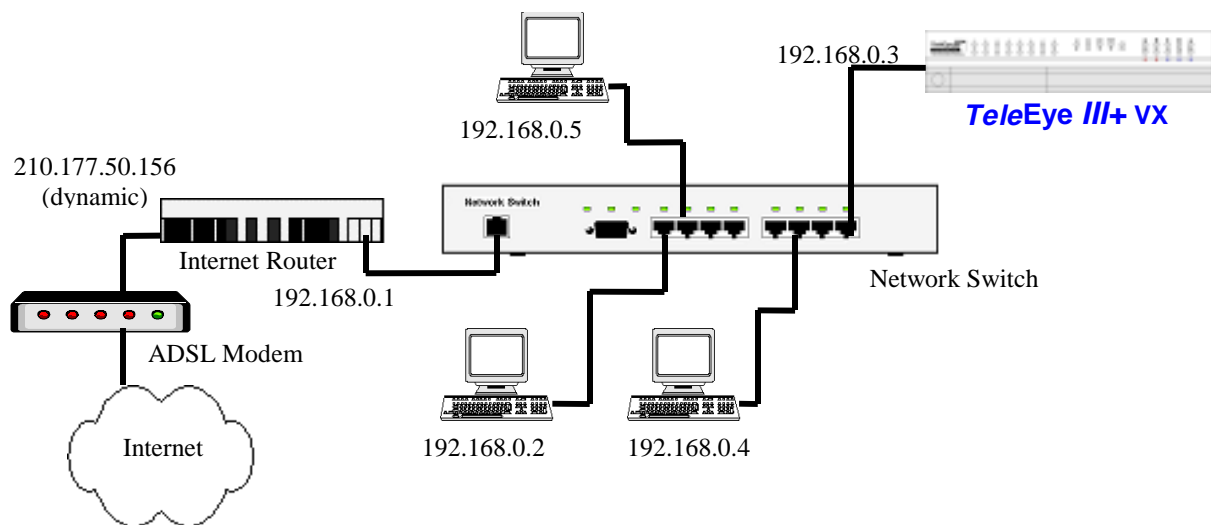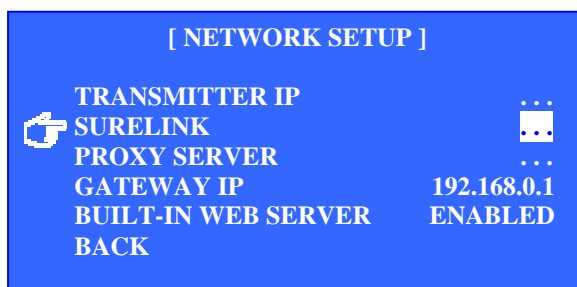

Procedures:

1. Install ADSL modem and Internet Router as shown in the connection topology diagram. Setup the Port mapping for Internet Router so that other PCs on the Internet can "see" *Tele*Eye *III+* VX using that specific port. A typical port mapping setting is illustrated in the following diagram.
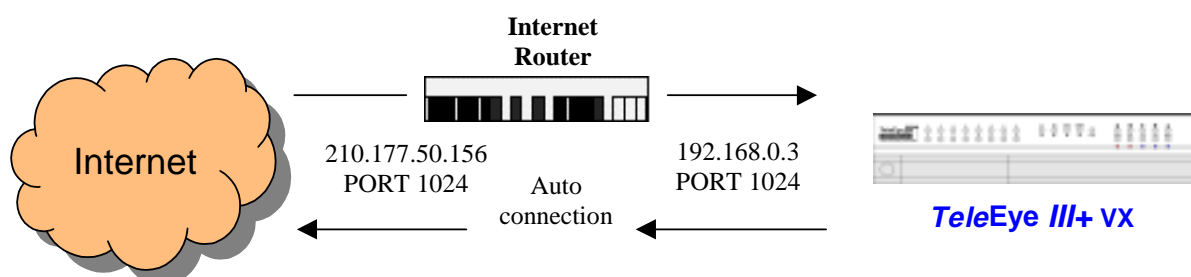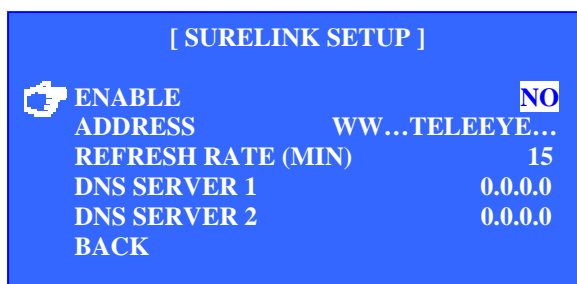

Installation of *Tele*Eye *III+* VX for Remote Monitoring

External port	1024
Internal IP	192.168.0.2
Internal port	1024

2. The IP address assigned by the ISP to you through ADSL modem is dynamic, which means it will change after certain period of time. In order to make the **_Tele_Eye _III+_ VX** addressable, you need to apply for our proprietary **_sure_LINK** service. Procedures involved are listed in appendix A.

3. After successful application of **_sure_LINK** service, you will obtain a **_sure_LINK** address, for example "www.your_site.your_company.teleeye.net".

4. Follow the steps below to set the **_sure_LINK** address and DNS name into **_Tele_Eye _III+_ VX**.

```
[ NETWORK SETUP ]

TRANSMITTER IP            . . .
SURELINK                  . . .
PROXY SERVER             . . .
GATEWAY IP          192.168.0.1
BUILT-IN WEB SERVER    ENABLED
BACK
```

- Press [Menu] button to enter the **[MAIN MENU]**, and then select **[TRANSMITTER SETUP]** -> **[NETWORK SETUP]**

- Use the arrow button to select **[SURELINK]** item, press **[Enter]** to popup the **[SURELINK SETUP]** menu

```
[ SURELINK SETUP ]

ENABLE                      NO
ADDRESS          WW…TELEEYE…
REFRESH RATE (MIN)          15
DNS SERVER 1           0.0.0.0
DNS SERVER 2           0.0.0.0
BACK
```

- Select the **[ENABLE]** item, then use the left and right arrow button to select YES

- Enter the **[ADDRESS], [DNS SERVER1], [DNS SERVER2]** item, and change them to the correct value

- Exit all menus to save the settings

5. DNS address enables your **_Tele_Eye _III+_ VX** using the **_sure_LINK** address to update its IP address to TeleEye's **_sure_LINK** server, the refresh rate indicates the time duration for updating. Duration of 15-45 minutes is frequent enough.

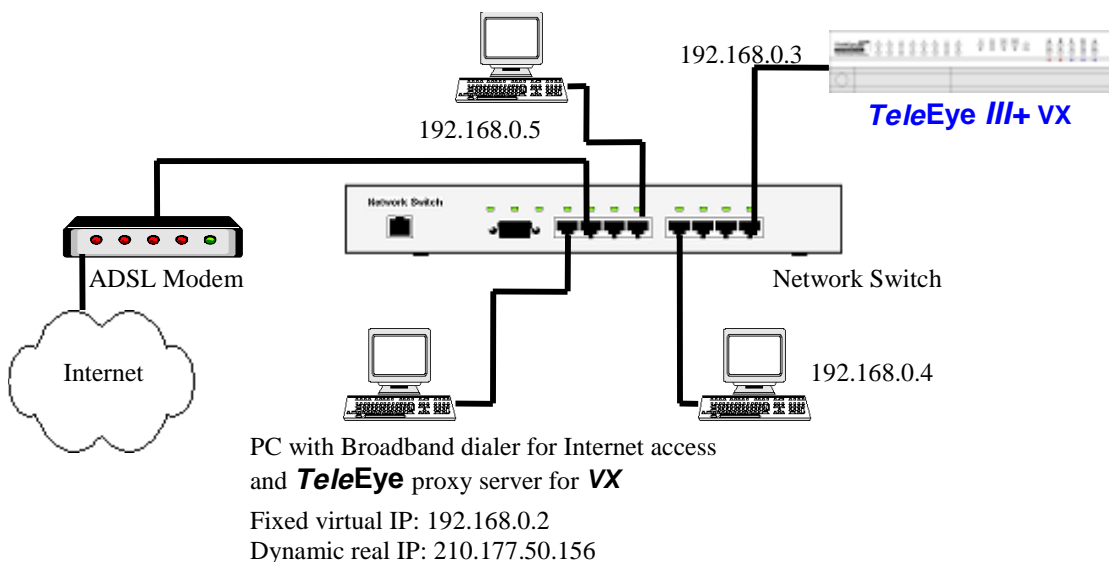6. After finish all configurations, power resets the **_Tele_Eye _III+_ VX** to make the new values effective.

Installation of _Tele_Eye _III+_ VX for Remote Monitoring

7. Try to use a web browser (eg. IE) to connect to **_Tele_Eye _III+_ VX** by entering its **_sure_LINK** address, you can see the video on browser if all your settings are correct. (Note: you must enable the built-in web server of **_Tele_Eye _III+_ VX** before doing the testing)

D. Setup _Tele_Eye _III+_ VX for Broadband Internet connection with dynamic IP using Broadband dialer
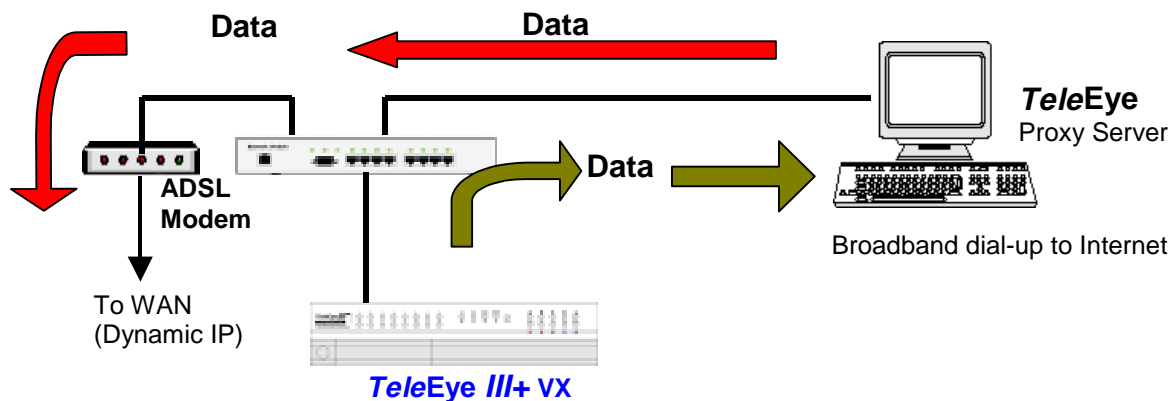
Connection topology:

It is possible to share the Broadband Internet access without an Internet router. Instead, a dedicated PC is required to control the ADSL modem to connect to the Internet. This dedicated PC will obtain a "real" but dynamic IP from the ISP, a proxy server is thus required to act as a gateway between **_Tele_Eye _III+_ VX** and the Internet.

192.168.0.3

_Tele_Eye _III+_ VX

192.168.0.5

ADSL Modem

Internet

Network Switch

192.168.0.4

PC with Broadband dialer for Internet access and **_Tele_Eye** proxy server for **VX**

Fixed virtual IP: 192.168.0.2
Dynamic real IP: 210.177.50.156

The video data flow between **_Tele_Eye _III+_ VX** to the Internet through the proxy server is illustrated in the following diagram.

Installation of _Tele_Eye _III+_ VX for Remote Monitoring

TeleEye **III+** VX

Transmitter installation procedures:

1. Install ADSL modem as shown in the connection topology diagram. Connect **Tele**Eye **III+** VX to network switch, and following the steps in setting up **Tele**Eye **III+** VX for Broadband Internet connection with dynamic IP using Internet router. Notice that the gateway of **Tele**Eye **III+** VX should remain blank in this case.

2. Press **[Enter]** button to pop up the main menu, and enter the sub-menu **[TRANSMIITER SETUP] -> [NETWORK SETUP]**.

3. Select **[PROXY SERVER]** item and then press enter to edit the proxy sever IP address.

4. You need to set edit each items of the **[PROXY SERVER SETUP]** menu. Select **[ENABLE]** item and user left/right arrow button to toggle select **[YES]**, enter the IP address (eg. 192.168.0.2 as in the connection topology), and set the port number (default value is 19001).

Installation of Tele Eye **III+** VX for Remote Monitoring

5. Setup **sureLINK** address and related settings as previous discussed.

6. Reset **TeleEye III+ VX** so that all settings will take effect.

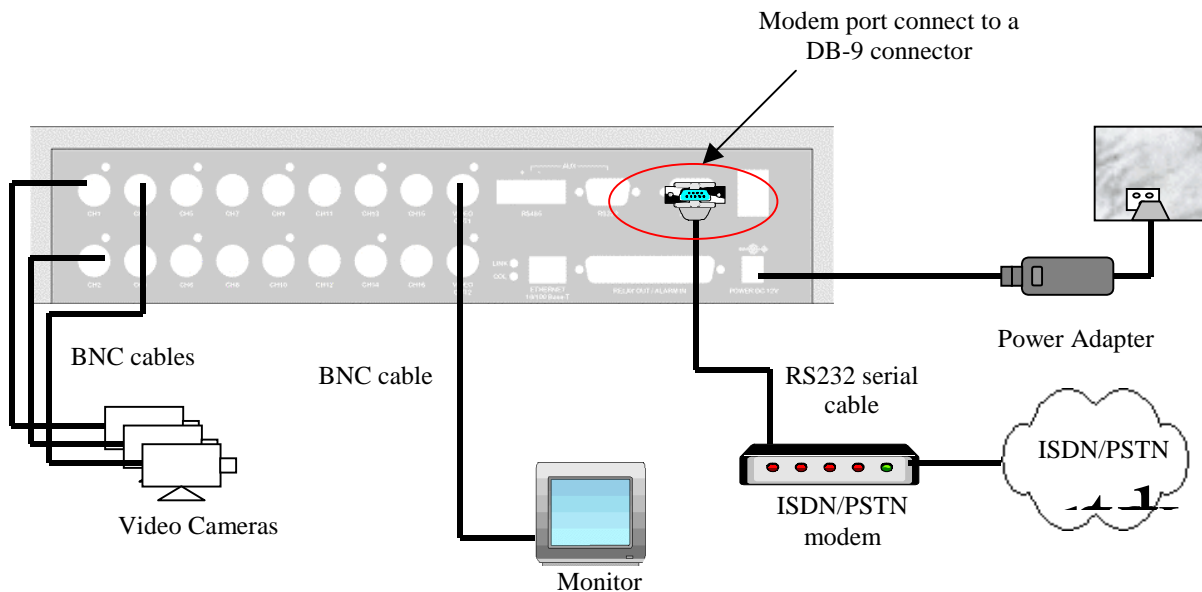**PC software installation procedures:**

1. On PC side, you need to install the Broadband dialer software and **TeleEye** proxy server software.

2. For Broadband dialer, consult your Broadband dialer software installation manual.

3. Install **TeleEye** proxy server software, which is bundled with **TeleEye III+ WRS3-AD** software.

4. Start **TeleEye** proxy server, the following screen will pop up. Enter the transmitter IP (eg. 192.168.0.3) and port number (eg. 1024). The external port is the port number of the dynamic real IP, which is used for other PCs on the Internet to access the transmitter.
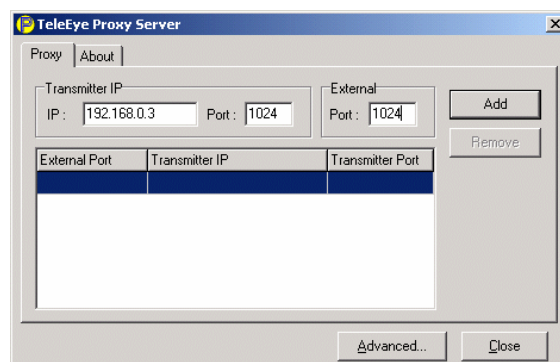
5. Click the **[Add]** button, so that the configurations will take effect and saved.

6. Try to connect to the **TeleEye III+ VX** on the Internet with web browser using its **sureLINK** address.
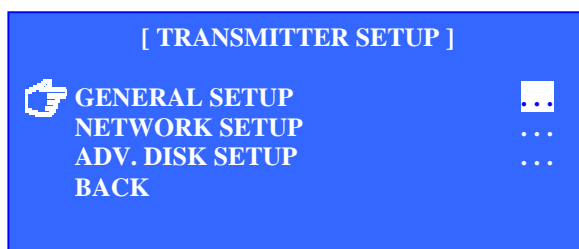
Installation of TeleEye III+ VX for Remote Monitoring

Install *Tele*Eye *III+* VX for Remote Monitoring with ISDN/PSTN Modem

Modem port connect to a
DB-9 connector

Power Adapter

BNC cables

BNC cable

RS232 serial
cable
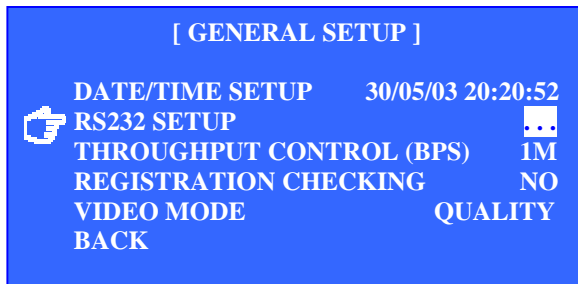
ISDN/PSTN

Video Cameras

ISDN/PSTN
modem

Monitor

Procedures:

1. Follow the steps of setting up *Tele*Eye *III+* VX for local video display, so that you can configure the modem port locally with keypad and monitor

2. Press the **[Menu]** button, and then **[TRANSMITTER SETUP]**, you will enter the following menu

```
         [ TRANSMITTER SETUP ]

    GENERAL SETUP              . .
    NETWORK SETUP              . . .
    ADV. DISK SETUP            . . .
    BACK
```

3. Select the **[GENERAL SETUP]** item, the general setup menu will popup below, select **[RS232 SETUP]** item, and press **[Enter]** button to enter the sub-menu.

Installation of *Tele*Eye *III+* VX for Remote Monitoring

```
[ GENERAL SETUP ]

DATE/TIME SETUP        30/05/03 20:20:52
RS232 SETUP                          . . .
THROUGHPUT CONTROL (BPS)      1M
REGISTRATION CHECKING          NO
VIDEO MODE                  QUALITY
BACK
```

- Use **[Enter]** button to enter the selected sub-menu

```
[ RS232 PORT SETUP ]

MODEM PORT BIT RATE           38400
BACK
```

Modem port bit rate is the maximum bit rate between **Tele**Eye **III+** VX and the modem, the actual transmission bit rate may depends on the bit rate between the modems after training

4. Connect an ISDN/PSTN modem to **Tele**Eye **III+** VX using RS232 serial cable. Power on both **Tele**Eye **III+** VX and modem, using the **Tele**Eye **WRS3-AD** software to make a modem connection to **Tele**Eye **III+** VX transmitter. If all the configurations are correct, you will see video on the **WRS3-AD** software. (For using of **WRS3-AD** software, please refer to **Tele**Eye **WRS3-AD** user manual)

HARD DISK INSTALLATION AND FORMATTING

Installation of Hard Disk

If you want to change the hard disk of **TeleEye III+ VX**, you need to do the hard disk installation procedure. **TeleEye III+ VX** support ATA standard hard disk, it is highly recommended that you use the hard disk listed at the end of this section.

Procedures:

1. Remove the hard disk rack as illustrated in the following diagram

Eject Hard Disk
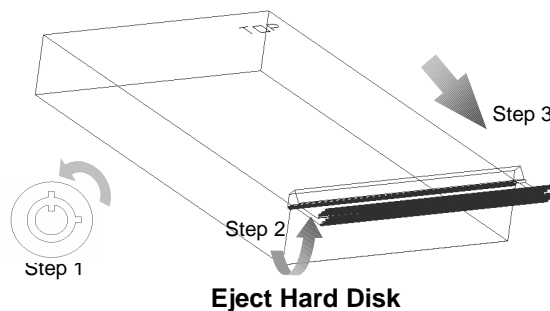
2. Open the cover of the hard disk cartridge provided by **TeleEye**, you will see a power cable and a 80-pin IDE cable

3. Plug the power cable and the 80-pin IDE cable to the hard disk, and insert the hard disk into the rack

4. Fix the position of hard disk on the rack by fasten the screws

5. Cover the hard disk rack, and insert the hard disk into **TeleEye III+ VX**

6. Lock the Key Lock. Configure the **TeleEye III+ VX** with local display as described in previous sections, and then switch the power on

Insert Hard Disk
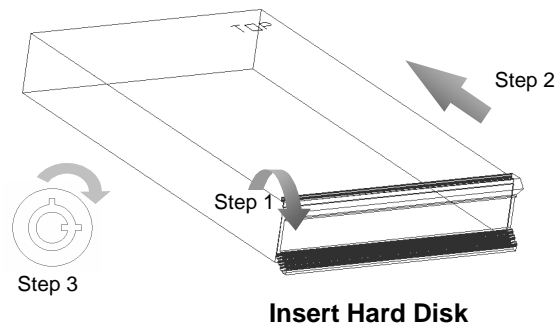
7. Press the **[Menu]** button to pop up the **[MAIN MENU]** on the screen. Select **[TRANSMITTER SETUP]** and press **[Enter]** button, the following menu will be shown

> **[TRANSMITTER SETUP]**
>
> GENEARAL SETUP   . . .
> NETWORK SETUP   . . .
> ADV. DISK SETUP   . . .
> BACK

8. Select **[ADV. DISK SETUP]** using the up/down arrow button and the press **[Enter]** button to enter the sub-menu as follows

> **[TRANSMITTER SETUP]**
>
> GENEARAL SETUP   . . .
> NETWORK SETUP   . . .
> ADV. DISK SETUP   . . .
> BACK

9. Select **[DISK INFORMATION]** item, and press **[Enter]** button, you will get the hard disk information as follows

> **[DISK INFORMATION]**
>
> DISK CAPACITY (GB)   80.03
> AVAILABLE SPACE   96%
> USED SPACE   4%
> BACK

10. If you installed the hard disk properly, the item **[DISK CAPACITY]** should match with the capacity specification of the hard disk roughly

Hard Disk Installation and Formatting
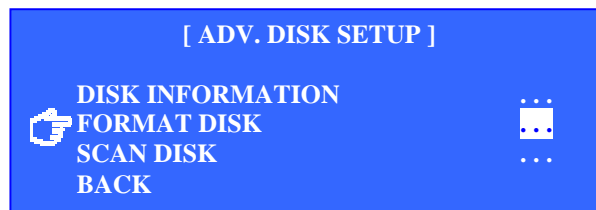
Hard Disk Formatting

Hard disk formatting will reconstruct the structure of hard disk so that it is readable by **_Tele_Eye _lll+_ VX**. If you have your own hard disk to install to **_Tele_Eye _lll+_ VX**, you must perform hard disk formatting.

It will be used in the following cases:

1.   A new hard disk you just brought

2.   No recorded video can be played

3.   You want to format the hard disk so as to have a clean recording space, redeem the file allocation.

Procedures:

1.   Press the **[Menu]** button to pop up the **[MAIN MENU]** on the screen. Select **[TRANSMITTER SETUP]** -> **[ADV. DISK SETUP],** and press the **[Enter]** button to pop up the following sub-menu

```
[ ADV. DISK SETUP ]

   DISK INFORMATION          . . .
☞ FORMAT DISK               . . .
   SCAN DISK                 . . .
   BACK
```

2.   Select the **[FORMAT DISK]** item, and press **[Enter]** button to confirm the selection. A message box will pop up as follow

```
[ MESSAGE ]

ALL DATA WILL BE ERASED,
      ARE YOU SURE ?

   YES          NO
```
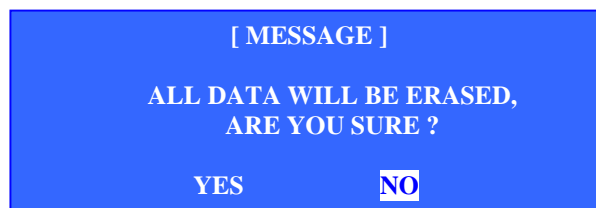
4.   Use **left/right arrow** button to select **[YES]** and press **[Enter]** button, the system will start formatting. The following information will show on OSD.

```
[ ADV. DISK SETUP ]

   FORMATTING…              20%
☞ CANCEL
```
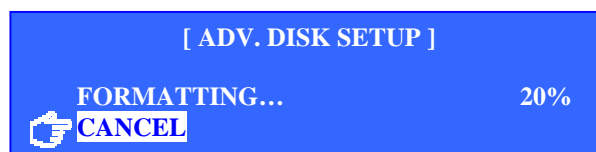
Hard Disk Installation and Formatting

Note: **Having confirmed the hard disk formatting, all your data on the hard disk will be lost**.

5.   Upon completion of hard disk formatting, the following message box will pop up

> **[ADV. DISK SETUP]**
>
> **FORMAT COMPLETED**   **100%**
> 👉 **BACK**
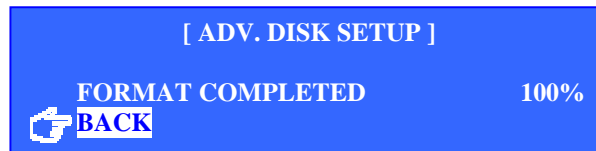
Hard Disk Scanning

It has similar function to the **SCAN DISK** provided by the Operating System of your personal computer. It is easy to understand why and when you will use it. Our **TeleEye III+ VX** provides this function so as to rescue the hard disk when errors found, and to enhance its performance and reliability. After scanning, the damaged files will be deleted so that the remaining normal videos can be seen.

It will be used in the following cases:

1.   You cannot playback the recorded videos

2.   You cannot search the desired video from the recording log. Or although you can find it, you cannot play it

3.   You wonder if the hard disk has problem

Procedures:

1.   Press the **[Menu]** button to pop up the **[MAIN MENU]** on the screen. Select **[TRANSMITTER SETUP]** -> **[ADV. DISK SETUP]**, and then press the **[Enter]** button to pop up the following sub-menu

> **[ADV. DISK SETUP]**
>
> **DISK INFORMATION**   **. . .**
> **FORMAT DISK**   **. . .**
> 👉 **SCAN DISK**   **. . .**
> **BACK**

2.   Select the **[SCAN DISK]** item, and press **[Enter]** button to confirm the selection. A message box will pop up as follow

Hard Disk Installation and Formatting

```
[ MESSAGE ]

START TO SCAN HARD DISK,
ARE YOU SURE ?

YES              NO
```
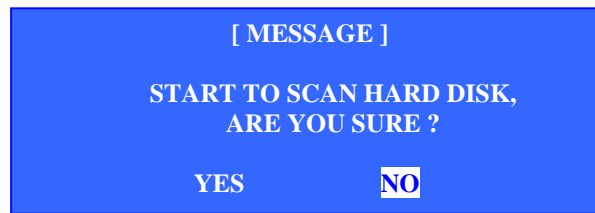
3.   Use **left/right arrow** button to select **[YES]** and press **[Enter]** button, the system will start scanning. The following information will be shown on OSD

```
[ ADV. DISK SETUP ]

CHECKING FOR ERRORS…          40%
CANCEL
```

4.   Upon completion of hard disk scanning, the following message box will pop up

```
[ ADV. DISK SETUP ]

CHECKING FOR ERRORS…          100%
BACK
```

Recommended Hard Disk List

Hard Disk Capacity	Product Line	Model No.
20GB	Maxtor FireBall 3 (5400 RPM)	2F020J0
	Maxtor DiamondMax Plus 8 (7200 RPM)	6E020L0
	Western Digital Protégé Value (5400 RPM)	WD200EB
40GB	Maxtor FireBall 3 (5400 RPM)	2F040J0
	Maxtor DiamondMax Plus 8 (7200 RPM)	6E040L0
	Western Digital Caviar High-Performance (7200 RPM)	WD400BB
	Western Digital Protégé Value (5400 RPM)	WD400EB
80GB	Maxtor DiamondMax Plus 9 (7200 RPM)	6Y080L0
	Maxtor DiamondMax 16 (5400 RPM)	4R080L0
	Western Digital Caviar Mainstream (5400 RPM)	WD800AB
160GB	Maxtor DiamondMax Plus 9 (7200 RPM)	6Y160P0
	Maxtor DiamondMax 16 (5400 RPM)	4A160J0

Hard Disk Installation and Formatting

SECTION

6

USING
BUILT-IN WEB SERVER

Enable the Built-In Web Server

PC recommendations:

- 128MB RAM
- Netscape 6.1 or Internet Explorer 5.5 or above
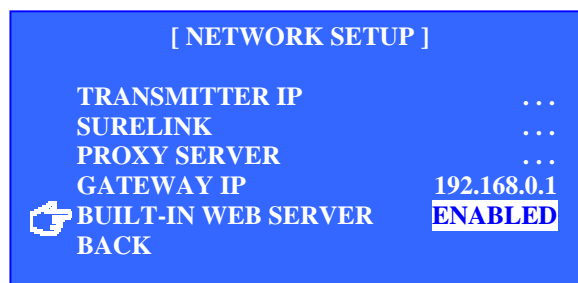- Any OS platform with web browser and Java Support

Before using the web service, you have to enable the Built-in Web Server feature. Follow the steps below to configure *Tele*Eye *lll+* VX for using web feature.

Procedures:

1. Press the **[Menu]** button to pop up the **[MAIN MENU]** on the screen. Select **[TRANSMITTER SETUP]** and press **[Enter]** button to pop up the following sub-menu

```
[ TRANSMITTER SETUP ]

   GENERAL SETUP              . . .
☞  NETWORK SETUP              . .
   ADV. DISK SETUP            . . .
   BACK
```

2. Select the **[NETWORK SETUP]** item, press **[Enter]** button to confirm the selection

```
[ NETWORK SETUP ]

   TRANSMITTER IP              . . .
   SURELINK                   . . .
   PROXY SERVER               . . .
   GATEWAY IP            192.168.0.1
☞  BUILT-IN WEB SERVER     ENABLED
   BACK
```

3. Use **up/down arrow** button to select the **[BUILT-IN WEB SERVER]** item, and use **left/right arrow** button to select **[ENABLED]**. Now the built-in web server is enabled

Connecting to the Web Server
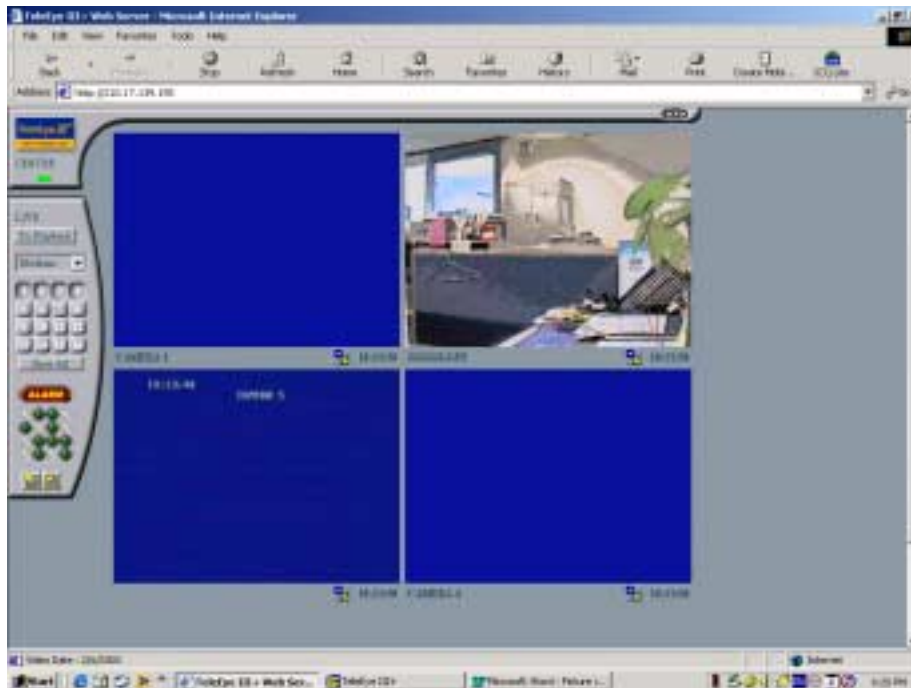
In   your   browser,   type   the   **_sure_LINK**   address   of   your   transmitter,
eg.http://www.hkpublic.teleeye.teleeye.net or simply IP address of the transmitter, you will see a
web site like:
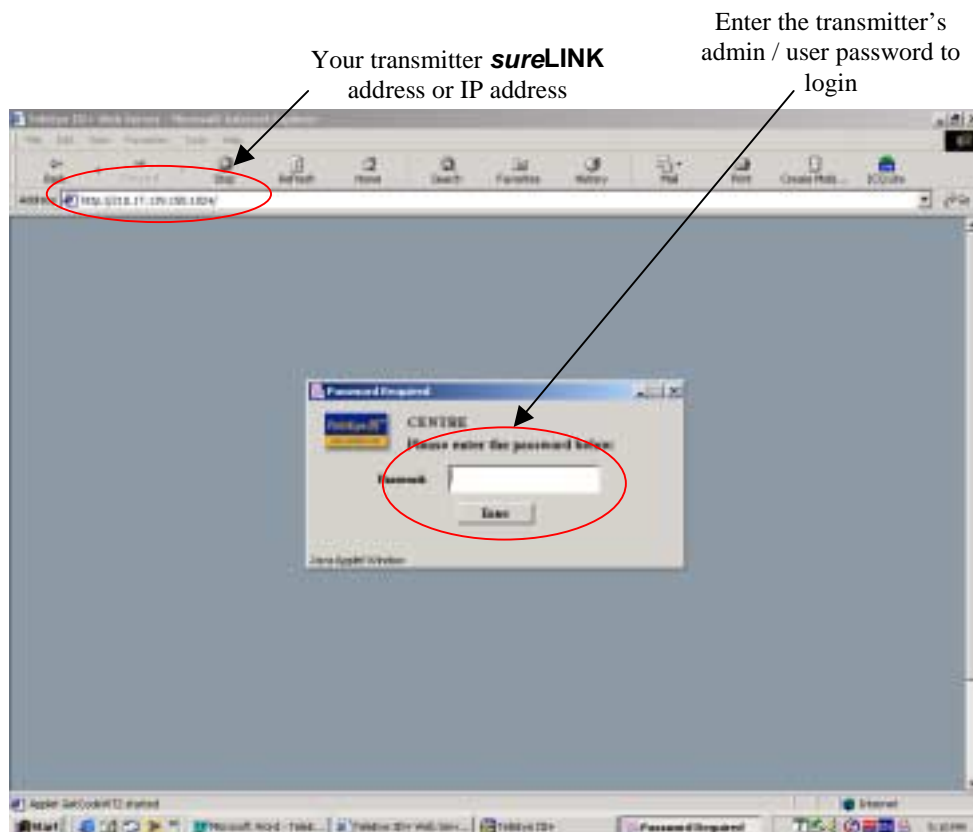
Enter your transmitter login password and press **Enter** button. A new page will be displayed.

You can choose the cameras by clicking the buttons on the left.

Note: If you have any problem on opening the page, please go to http://java.sun.com/getjava/download.html to update your Java VM.

Using Built-In Web Server

<div align="right">

APPENDIX
A
</div>

_sure_LINK TECHNOLOGY

_sure_LINK technology is available in **_Tele_Eye _III+_ VX**, which enables you to connect to the transmitter with broadband dynamic IP connection. If you can only use broadband dial-up account to connect to the Internet through your computer, **_sure_LINK** provides a solution for sharing the Internet connection between your computer and the transmitter.

_sure_LINK is a group of additional functions, services and software provided for the transmitter so as to make it connect to the Internet in any connection methods. Such function can only be used if you have applied for this service. After you have done so, you also need to configure the transmitter to make **_sure_LINK** available. This section will help you to configure and use it.

By using of **_sure_LINK** technology, the powerful **_Tele_Eye _III+_ VX** can work on broadband Internet economically, a cost effective and convenient remote live video monitoring anytime and anywhere.

- **_sure_LINK Address**
  You can apply for a **_sure_LINK** address (domain name), such as *www.hkpublic.teleeye.teleeye.net,* for your transmitter. You can use this name to login or browse the built-in web server. One of the advantages is that you are not required to memorize the IP address (e.g. *210.177.50.156*) of the transmitter. Since the **_sure_LINK** address is fixed while the IP address may change periodically (in case when dynamic IP is used), you do not need to worry about the expiration of the IP address. The **_sure_LINK** address can also be used in transmitter web browsing to see live video on standard web browser (e.g. IE, Netscape), it will be discussed in Section 6.

- Refreshing Rate
  When **_sure_LINK** address feature is enabled, the transmitter will periodically update its current IP address to our database to ensure that the **_sure_LINK** address is always forwarded to a valid IP. You can set this update period at the using OSD

- DNS Services:
  Assigned when the transmitter can directly access the Internet without the help of **_Tele_Eye** Proxy Server
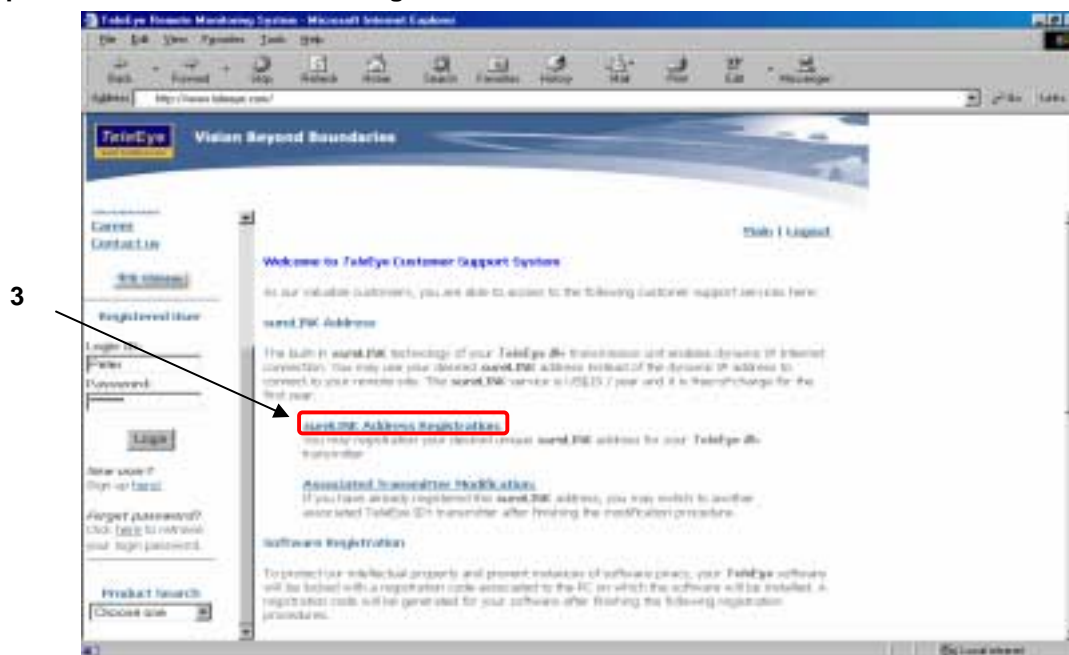
_sure_LINK Technology

How to Apply for *sure*LINK Address

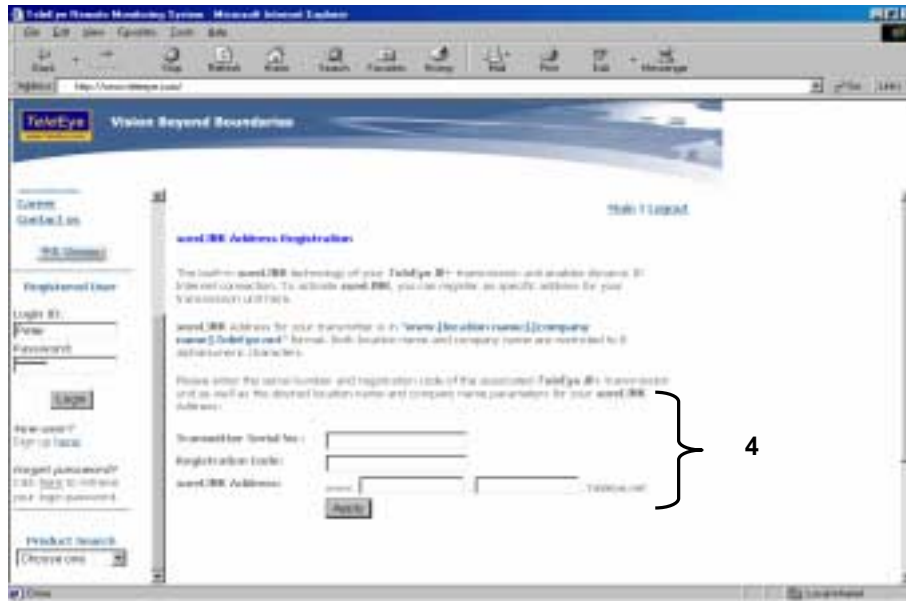You can apply for **sure**LINK by visiting our web site at http://www.TeleEye.com

Step1: Sign up to create your user account

Step 2: Login the page using your registered name and password.

**Step 3:** Click *sure*LINK Address Registration button

*sure*LINK Technology

Step 4: Enter a *sure*LINK address (**Domain Name)**, your **Transmitter Serial No.** and **Registration Code** in the fields provided respectively. Then click the **Apply** button. The process is then completed.

After we received your domain name registration for your transmitter, your application will be processed. Normally, it requires about 2 to 3 working days to activate *sure*LINK for your transmitter. You will receive a notification mail when your *sure*LINK service is ready.
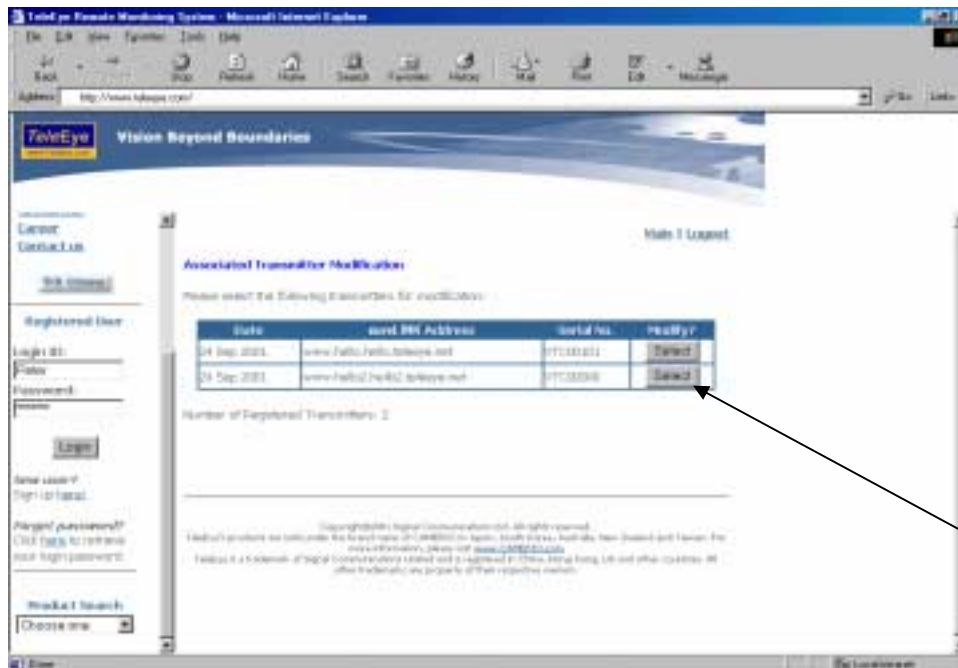
Transmitter Modification

Since the *sure*LINK (Domain name) address corresponds to a single transmitter, if you change from one transmitter to another one, you have to inform us to update our database record. To do this, you can visit our *Tele*Eye Product Support again and follow the steps below:

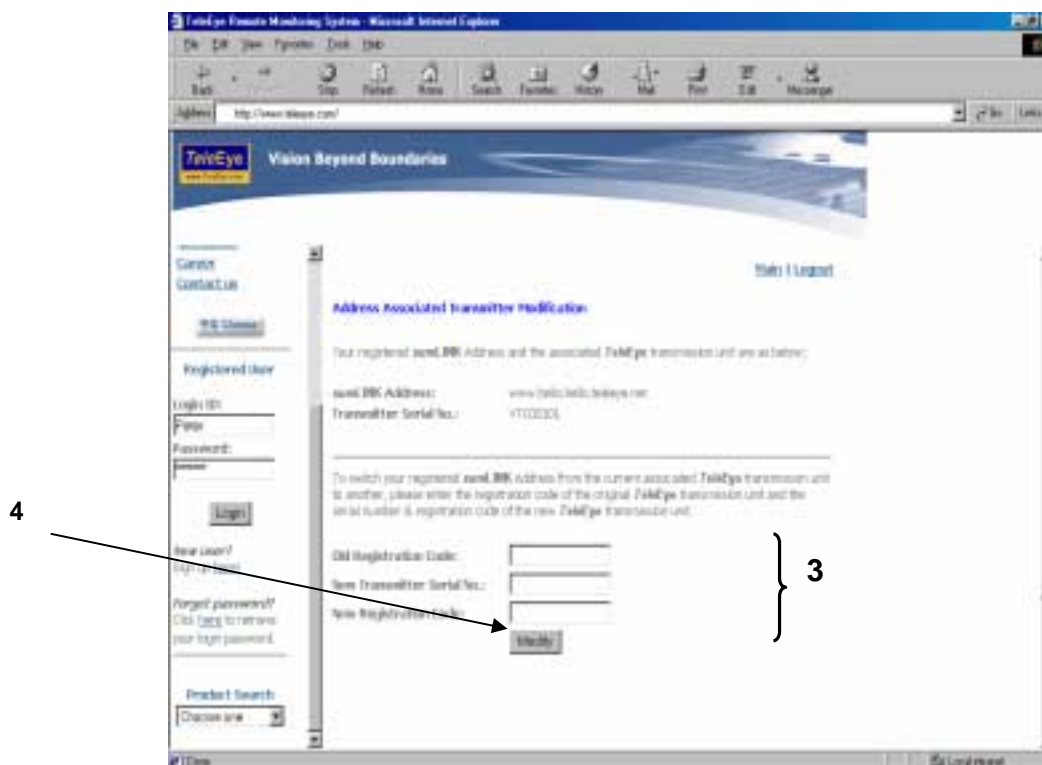**Step 1: Transmitter Modification** > **Select** a *sure*LINK address (**Domain Name**) you want to modify
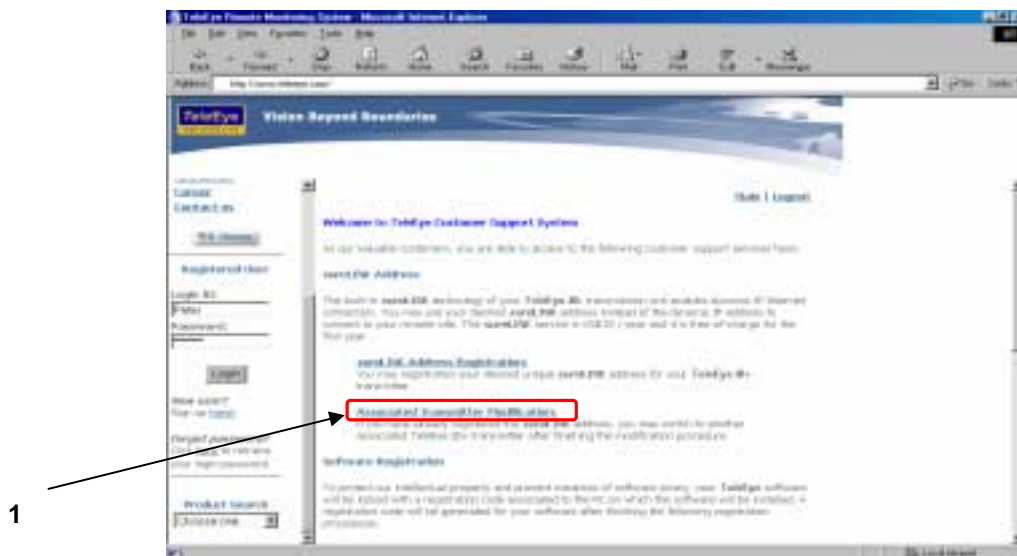
*sure*LINK Technology

Step 2: Enter the **Old Registration Code**, **New Transmitter Serial Number** and **New Registration Code** at each field provided. Click Modify button to submit the form.

If the above procedure is completed successfully, the **_sure_LINK** will be effective immediately.

_sure_LINK Technology

<div align="right">APPENDIX **B**</div>

IP ADDRESS SETUP FOR PC

IP Address Setup for Windows 98/ME

The follow procedures will set your Ethernet Card IP address manually for your local LAN purpose. Note that these procedures will NOT affect your PC to get on the Internet. If you discover that you cannot be able to access on the Internet after applying the settings, you have to undo the settings or re-install the software provided by your ISP and retry the steps again.

Step 1: In Windows 98/ME desktop, select **Start** > **Settings** > **Control Panel**

Step 2: Double click **Network** > **Configuration**, you will find that there are at least 2 fields (usually 3 fields) started with "*TCP/IP ->*".

3. TCP/IP

Your Ethernet card name
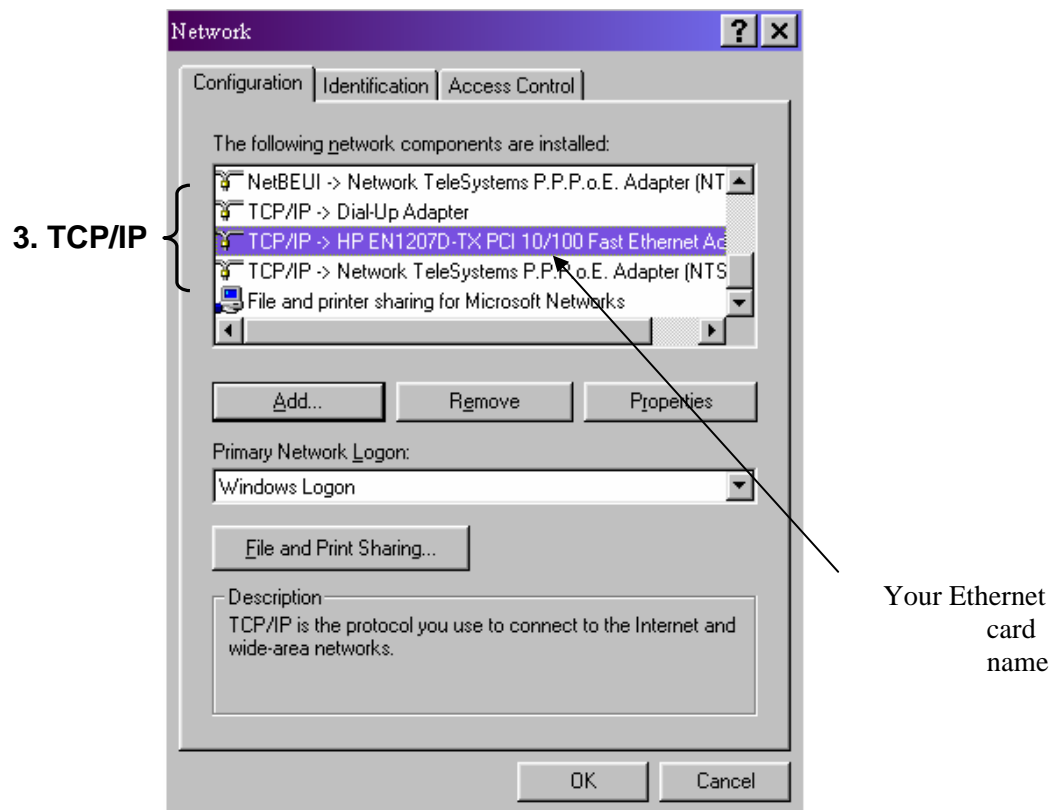
Two of them are very important for setup. One of them is used for your local Intranet (the field may contain the name of your Ethernet card), the other one is used for your broadband Internet connection. An example is shown in the following figure.

TCP/IP-> HP EN1207D-TX PCI 10/100 Fast Ethernet Adapter	Used for Intranet (local network)
TCP/IP-> Network TeleSystems P.P.P.o.E Adapter	Broadband Internet Access (Point-to-Point Protocol over Ethernet)

Note that the name of these two TCP/IP adapters may be different on your computer. You have to identify the purpose of each corresponding adapter.

Step 3: Choose **TCP/IP->[Your Ethernet card name]** > Click **Properties** > **IP address**, enter an IP address "*192.168.0.3*" and subnet mask "*255.255.255.0*"
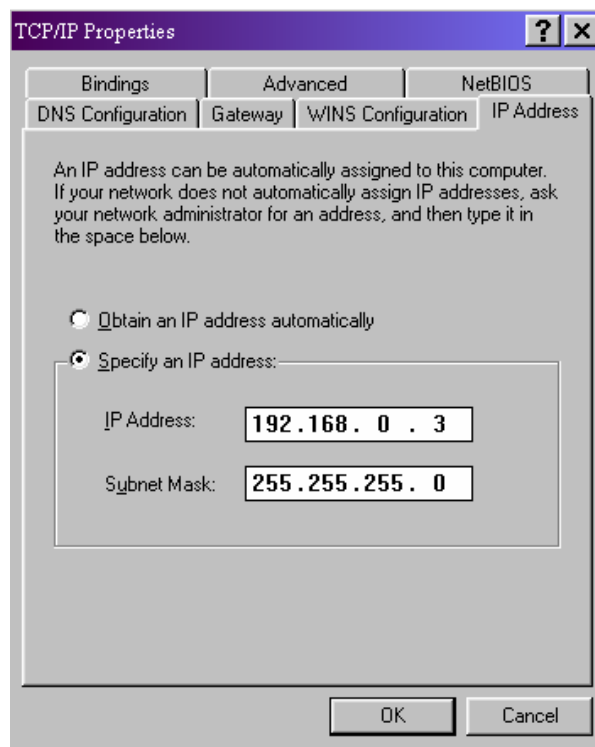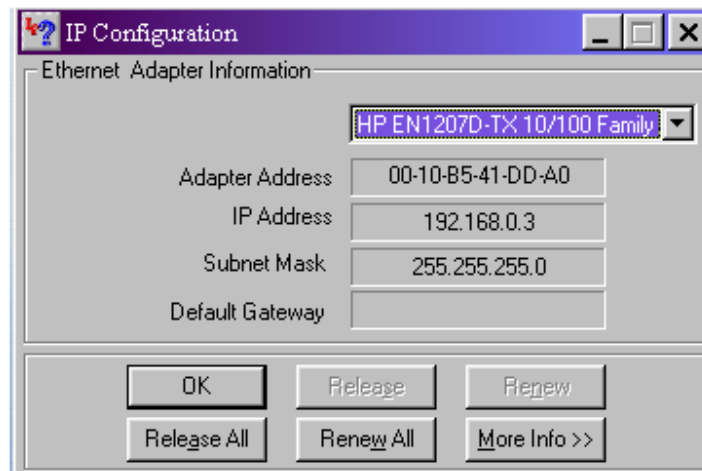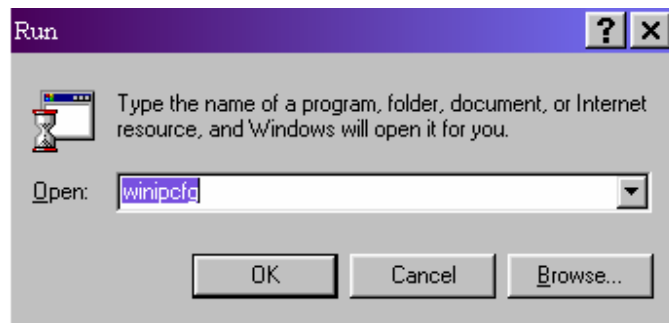

Step 4: Click **OK** and **OK** and reboot the computer.

Step 5: After booting, ensure that the computer can still be connected to the Internet.

Step 6: You have to confirm that IP address has been set on your computer. On your windows, click start **>** run**, type "***winipcfg***" at Open field and press** OK **button, then you will see a** IP Configuration **program shown as figure.**

IP Address Setup For PC

Step 7: Select your Ethernet card name on the field, you will see an **IP address** on the field. Ensure that that is the same as you have set before (i.e. 192.168.0.3). If it is not so, please repeat step 12. Click **OK** to close the program.
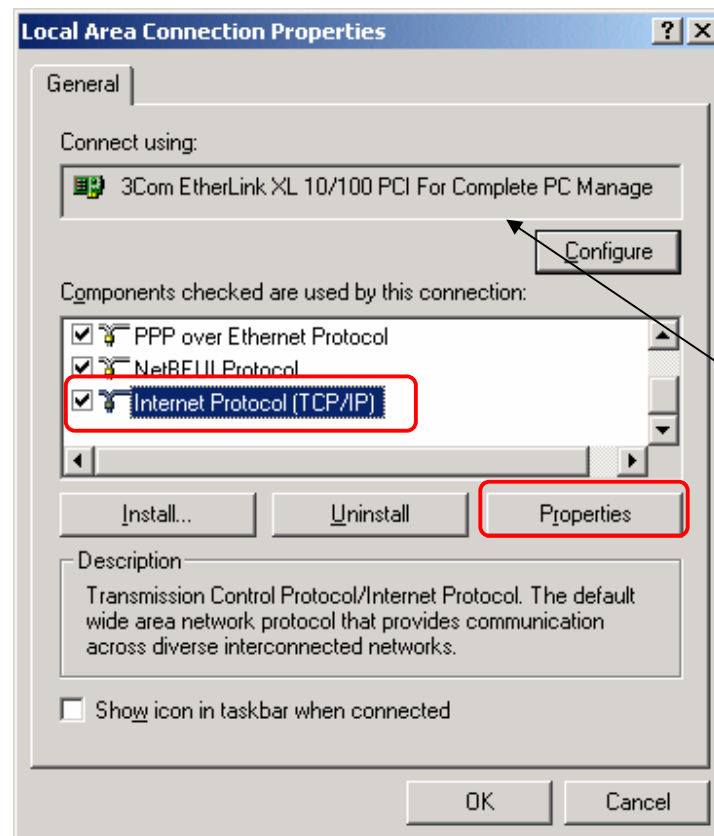
IP Address Setup For PC

IP Address Setup for Windows NT/2000

The follow procedures will set your Ethernet Card IP address manually for your local LAN purpose. Note that these procedures will NOT affect your PC's connection to the Internet. If you discover that you cannot be able to access to the Internet after applying the settings, you have to undo the settings or re-install the software provided by your ISP and retry the steps again.

Step 1: In Windows NT/2000 desktop, select **Start** > **Settings** > Control Panel

Step 2: Double click **Network and Dial-up Connections** > right click **Local Area Connections** and choose **Properties**.

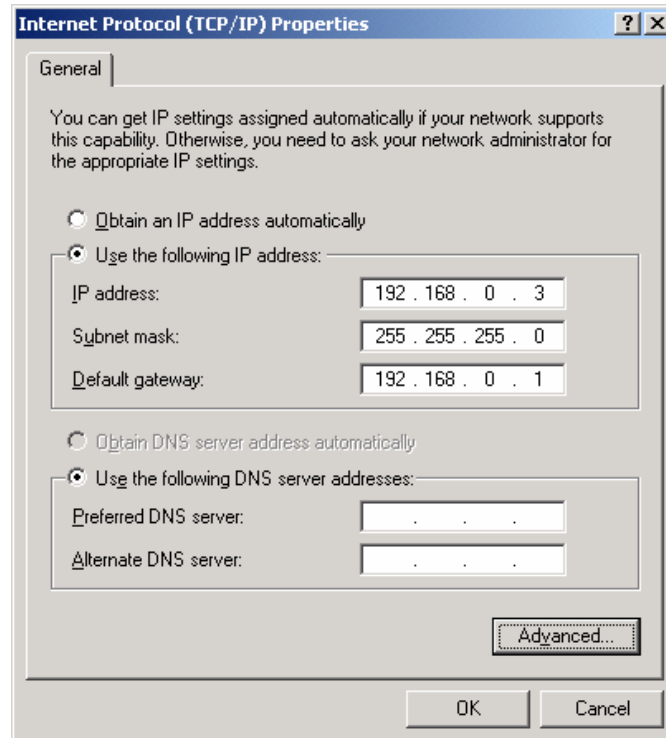**Step 3:** Choose **Internet Protocol (TCP/IP)** and click **Properties**

Your Ethernet card name

IP Address Setup For PC

Step 4: Enter an **IP address, subnet mask** and **Default gateway**.

Step 5: Enter the **Preferred** and **Alternate DNS server**, if necessary.

Step 6: Click **OK** to activate the new IP.

Step 7: You have to confirm that IP address has been correctly set on your computer. On your windows, click start **>** run**, type** "*cmd*" **at Open field and press** OK **button, then type** "*ipconfig*" **on the DOS prompt, you will see an IP set on your computer.**

Router Configuration

Port Mapping in your Router

For **PLANET** Internet SOHO Router **XRT-101 / XRT-711,** please refer to its menu

6.1 Advanced Internet Features ->
Virtual Servers (Define servers on your LAN, so Internet users can access them)->
      E.3 User-defined Virtual Servers

      Suggested Data for router:

Name	_Tele_Eye
IP Address	192.168.0.2 (Your transmitter IP address)
Protocol	TCP
Internal Port No.	1024
External Port No.	1024

IP Address Setup For PC

APPENDIX C

SPECIFICATIONS

MODEL	VX-4001	VX-4002	VX-8002	VX-8004	VX-16004	VX-16008
VIDEO INPUT						
STANDARD	(P): PAL/CCIR, 625 lines, 50 fields per second (N): NTSC/EIA, 525 lines, 60 fields per second composite video, 1 V_{p-p}, BNC					
NO. OF CHANNELS	4		8		16	
RESOLUTION	Quality mode: 640X480, 320X240, 160X120 pixels Speed mode: 512x384, 256x192, 128x96 pixels					
VIDEO OUTPUT						
STANDARD	(P): PAL/CCIR, 625 lines, 50 fields per second (N): NTSC/EIA, 525 lines, 60 fields per second composite video, 1 V_{p-p}, BNC					
NO. OF CHANNELS	2					
STANDALONE OPERATION						
TYPE	System configuration, operation, audit trai					
COMMUNICATION						
NETWORK	RJ-45, 10/100Base-T Ethernet (auto-sensing)					
CONCURRENT USERS	6		10		18	
WEB SERVER	built-in web server					
***sure*LINK**	support Internet connection assigned with dynamic IP address					
MODEM PORT	RS-232C: DB-9 male, asynchronous, 8 data bits, 1 stop bit, no parity, 9.6k-115.2kbps, hardware flow control					
AUX PORT	RS-232C or RS-422/485 RS-232C: DB-9 female, asynchronous, 8 data bits, 1 stop bit, no parity, 2.4k-19.2kbps, hardware flow control RS-422/485: 2-way terminal, asynchronous, 5-8 data bits, 1-2 stop bits, no/odd/even parity, 2.4k-19.2kbps					
RECORDING						
MODE	manual, programmable, event-driven					
HD TYPE	IDE interface, removable					
HD SIZE	40GB, 80GB, 160GB selectable					
MAX. RECORDING RATE[#]	12.5/15fps	25/30fps	25/30fps	50/60fps	50/60fps	100/120fps
EVENT HANDLING						
EVENT TYPE	external alarm, video motion detection, video loss, recording full, system failure					
ACTION TYPE	buzzer, dial back, local recording, relay control, email notification					
EXTERNAL INPUTS	4x, or 3x + arm/disarm, NC/NO		8x, or 7x + arm/disarm, NC/NO		16x, or 15x + arm/disarm, NC/NO	
RELAY SWITCH						
NO. OF CHANNELS	4					
MAX. RATING	24V AC, 1000mA					

Specifications

POWER		
VOLTAGE	12V DC		
MAX. RATING	40W	44W	51W
OPERATING ENVIRONMENT		
AMBIENT TEMPERATURE	$5^{o}C - 50^{o}C$		
RELATIVE HUMIDITY	<85% (no condensation)		
MECHANICAL DESIGN		
DIMENSION	360x345x95 (mmxmmxmm)		
WEIGHT	5.1 kg	5.5 kg	6.3 kg

Specifications